

SCREENING SITE INSPECTION REPORT
FOR
METRO DSPL SYST INC
FAIRMONT CITY, ILLINOIS
U.S. EPA ID: ILD980607204
SS ID: NONE
TDD: F05-8912-090

PAN: FILO417SB

OCTOBER 30, 1991



ecology and environment, inc.

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International Specialists in the Environment

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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Metro Dspl Syst Inc (Metro) site under contract number 68-01-7347.

The site was discovered in 1970, when Metro Disposal Systems, Inc. (MDSI), submitted an application to the Illinois Environmental Protection Agency (IEPA) for a permit to use the site as a landfill (Ballard 1970).

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Mary E. Dinkel, IEPA, and is dated April 2, 1985 (U.S. EPA 1985).

FIT prepared an SSI work plan for the Metro site under technical directive document (TDD) F05-8912-090, issued on December 13, 1989. The SSI work plan was approved by U.S. EPA on February 21, 1991. The SSI of the Metro site was conducted on May 8 and 9, 1991, under amended TDD F05-8912-090, issued on March 19, 1991.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of eight soil/sediment samples, four monitoring well samples, and two leachate well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined

preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (U.S. EPA 1988).

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

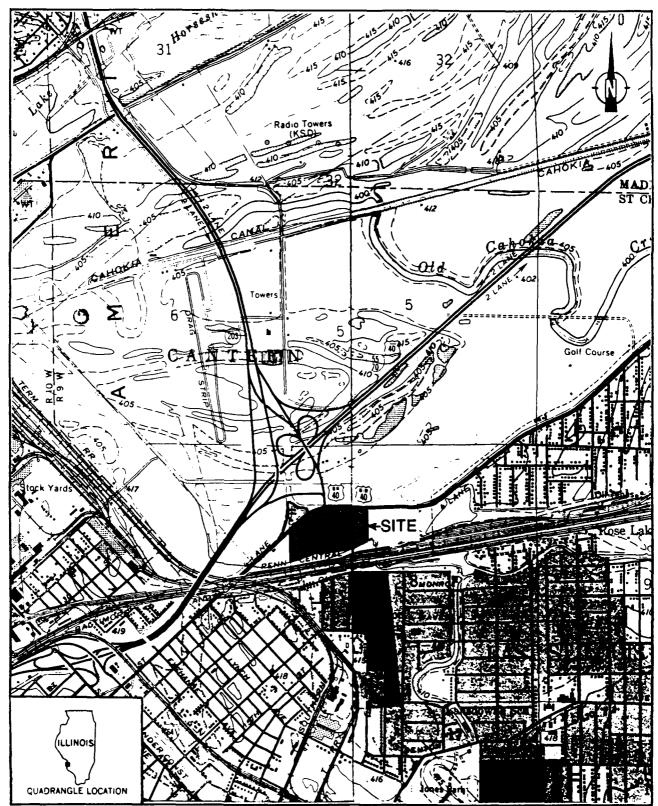
2.2 SITE DESCRIPTION

The Metro site is a currently inactive landfill that operated from 1970 to 1974 (Mensing 1991). The site is approximately 18 acres in size and contains an 8 1/2-acre fill area. The Metro site is located on the south side of Collinsville Road (also known as Route 40), near the intersection of Collinsville Road and Route 203 in Fairmont City, St. Clair County, Illinois (SW1/4NW1/4 sec. 8, T.2N., R.9W.)(see Figure 2-1 for site location). The site is adjacent to wetlands on the west and is bordered by an earthen berm on the east. On the south, an unpaved acces road and railroad tracks separate the site from more populated areas.

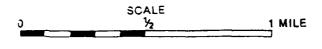
A 4-mile radius map of the Metro site is provided in Appendix A.

2.3 SITE HISTORY

The Metro site is currently owned by Consolidated Rail Corporation (Conrail). Conrail has owned the site since approximately 1978 (Pendergast and Warwick 1991). According to the St. Clair County Tax Assessor's Office, Conrail leased the site to MDSI for use as a sanitary landfill (Smith 1991). However, FIT file information indicates that the landfill closed in 1974. Prior to 1978 the site was owned by Penn Central Railroad Company (Penn Central) and operated by MDSI. Owners and



SOURCE: USGS, Granite City, IL-MO Quadrangle, 7.5 Minute Series, 1954, Photorevised 1968 & 1974; Monks Mound, IL Quadrangle, 7.5 Minute Series, 1954, Photorevised 1968 & 1974.



F-GURE 2-1 SITE LOCATION

operations at the site prior to its use as a landfill in 1970 are not known.

Disposal of wastes at the site began on August 24, 1970, under a permit issued by the Illinois Department of Public Health (IDPH) to MDSI to operate the site (Mensing 1991). MDSI was issued a permit by IDPH to landfill only Phase B of its operation, which consisted of approximately 8 acres. Phase A of the operation never existed (Mensing 1991).

During its operation as a landfill, the site received 20 compactor loads containing 40 cubic yards each of solid wastes and refuse from East St. Louis six days a week (Ballard 1970). The number of transporters of wastes to the landfill, the depth of the trenching operation, and the existence of a liner beneath the fill area are not known. However, a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) section 103(c) Notification of Hazardous Waste Site form, submitted by Anheuser-Busch, Inc., to U.S. EPA on June 9, 1981, indicates that Anheuser-Busch had generated and transported caustic label pulp, a corrosive, to MDSI landfills located in Jefferson Barracks, Missouri, and Fairmont City, Illinois (the Metro site). Approximately 467,000 cubic feet of caustic label pulp was shipped to both locations between August 1968 and February 1973. The exact dates and amounts of wastes that Anheuser-Busch shipped to each landfill are not known (U.S. EPA 1981).

During a routine inspection of the Metro site conducted by IEPA on July 21 and 22, 1971, yellow paint-like liquid, paper pulp, scum, and brown bottle washing liquid were observed in standing water at the site. Investigators documented that leachate was flowing into an on-site drainage ditch that eventually flowed into the Mississippi River (Illinois Pollution Control Board [IPCB] 1973). Similar observations were made by IEPA during routine inspections of the site in December 1971 and in May, July, and December 1972.

In January 1972, MDSI was denied a permit by the IEPA Department of Land Pollution Control (IEPA-DLPC). IEPA-DLPC inspected the Metro site on February 1, 1972, and observed a large hole in the landfill. A large drainage tile was located at the bottom of this hole. MDSI intended to fill this hole and close the Metro site (Child 1972).

IEPA issued an enforcement case with IPCB against MDSI on February 9, 1973, for violations of the Illinois Environmental Protection Act including: failure to provide daily cover of refuse, failure to provide final cover of filled areas, disposal of liquids or hazardous substances at the site, exceeding height limits for a landfill, allowing leachate to flow off-site into public waterways, and operating portions of the landfill without a permit (IPCB 1973). IPCB certified an opinion and order on June 7, 1973, to revoke the permit held by MDSI to operate a landfill at the site. The order stipulated that MDSI would close the site and apply final cover within 90 days from the date of the order and pay a \$2,500 penalty to the state of Illinois for violations of the Illinois Environmental Protection Act. MDSI ceased to accept wastes at the site in approximately summer 1973 and completed closure operations of the site in approximately mid 1974 (Mensing 1991).

Although the Metro site was closed in 1974, Anheuser-Busch's 103(c) notification indicates that an additional 487,000 cubic feet of caustic label pulp wastes was shipped directly to the Metro site by Anheuser-Busch between March 1973 and June 1980 (U.S. EPA 1981). Routine inspections performed by IEPA after 1974 do not indicate any evidence of illegal dumping (Mann and Mensing 1978; McCarthy 1977).

During a routine inspection of the inactive Metro site on February 8, 1977, IEPA observed that the western slope of the site was burning beneath the surface, affecting an area of approximately 375 square yards. The fire was extinguished on February 14, 1977, by the Conrail engineering department, from Indianapolis, Indiana, which used heavy equipment to extinguish the fire and recovered refuse that had been exposed by the operation (McCarthy 1977). The cause of the fire is not known (Mensing 1991).

MDSI installed eight groundwater monitoring wells at the site after closure was completed. The date that these wells were installed is not known. As part of post-closure landfill activities required under the Illinois Environmental Protection Act, MDSI was required to sample these monitoring wells. It is not known whether this sampling was conducted. On June 7, 1978, IEPA completed installation of three additional ground-

On June 7, 1978, IEPA completed installation of three additional ground-water monitoring wells and two leachate monitoring wells at the site and began a one-year sampling program (Nienkerk 1978).

A second incident of a fire burning beneath the site was discovered by IEPA personnel who were passing by the site on August 29, 1978. IEPA observed that the surface vegetation atop the fill area had been burned and that a fire was then burning beneath ground surface. IEPA could not determine the origin of the fire. Conrail was notified of the fire on August 29, 1978, and used a private contractor to excavate, extinguish the fire, and recover the site by November 17, 1978 (Mann and Mensing 1978).

IEPA collected samples from groundwater monitoring wells and leachate monitoring wells in November 1979. Parameters that were tested for included heavy metals, phenols, polychlorinated biphenyls (PCBs), and chlorinated hydrocarbons. Analysis of groundwater monitoring well samples revealed heavy metals, including barium (0.5 ppm), arsenic (0.035 ppm), and manganese (5.5 ppm), as well as PCBs (0.6 μ g/L) (IEPA-DLPC 1979). Results of leachate monitoring well samples for the same time period revealed organic compounds including Dieldrin (0.95 μ g/L), Heptachlor epoxide (0.02 μ g/L), Chlordane (0.96 μ g/L), and PCBs (19.0 μ g/L) (IEPA-DLPC 1979). Analysis forms for leachate monitoring wells do not contain information concerning detection of heavy metals in the leachate samples. It is not known whether other samples, such as upgradient groundwater and surface water samples, were collected during this time period.

Further sampling of on-site leachate monitoring wells for PCBs was conducted by IEPA on April 29, 1982. Analysis of these samples revealed PCBs (1.2 mg/L) (IEPA-DLPC 1982). Analysis of samples collected from groundwater monitoring wells of the same time period revealed PCBs at levels below (0.1 μ g/L) (IEPA-DLPC 1982). An upgradient groundwater monitoring well sample was collected at this time and the levels of PCBs detected were similar to those detected in downgradient and sidegradient samples (IEPA-DLPC 1982).

No other remedial activity concerning the site has been documented.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Metro site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan with the following exceptions. The original work plan called for the collection of eight soil samples and six monitoring well samples. The work plan called for some of these soil samples to be collected at depths between 2 and 4 feet. All soil samples collected were surface samples. FIT did not collect deep soil samples because FIT believed that surface samples would adequately characterize the site. Four groundwater samples were collected at the Metro site. FIT located only four monitoring wells that could be sampled. FIT found one monitoring well that was bent at its base and therefore could not be sampled. No other monitoring wells could be located. FIT sampled the two on-site leachate wells at the recommendation of IEPA after its review of the work plan.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Metro site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Ed Belmonte, FIT team leader, conducted an interview with Tom Pendergast, Director of Environmental Affairs for Conrail, and Mark Warwick, Real Estate Manager for Conrail, on May 8, 1991, at 8:20 a.m. at the Metro site, Fairmont City, Illinois. Also present at the interview was Cliff Florczak of FIT. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Metro site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 10:35 a.m. and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by the site representatives during the reconnaissance inspection.

Reconnaissance Inspection Observations. The Metro site is located in a sparsely populated area of Fairmont City, Illinois, south of the intersection of Route 203 and Collinsville Road (Route 40) in Fairmont City, Illinois. The general topography in the area of the site is relatively flat.

The Metro site is an approximately 18-acre parcel of land which is covered with thick vegetation. The site is bordered on the north by Collinsville Road, on the east by an earthen berm, on the south by Conrail Railroad tracks and on the west by low-lying wetlands. An abandoned gas station and an abandoned motel are located directly across from the site on the north side of Collinsville Road.

The low-lying wetlands that border the site on the west extend north from the Conrail Railroad tracks to the area of the abandoned gas station.

The western half of the site, approximately 8 1/2 acres, was used for the fill area. The fill area is characterized by its mounded appearance and uneven topography (see Figure 3-1 for site features). The fill area is generally well vegetated although a few areas of stressed vegetation and bare soil do exist. The eastern edge of this fill area slopes sharply toward low-lying wetlands that cover the eastern half of the site. This area is marked by standing water and thick vegetation.

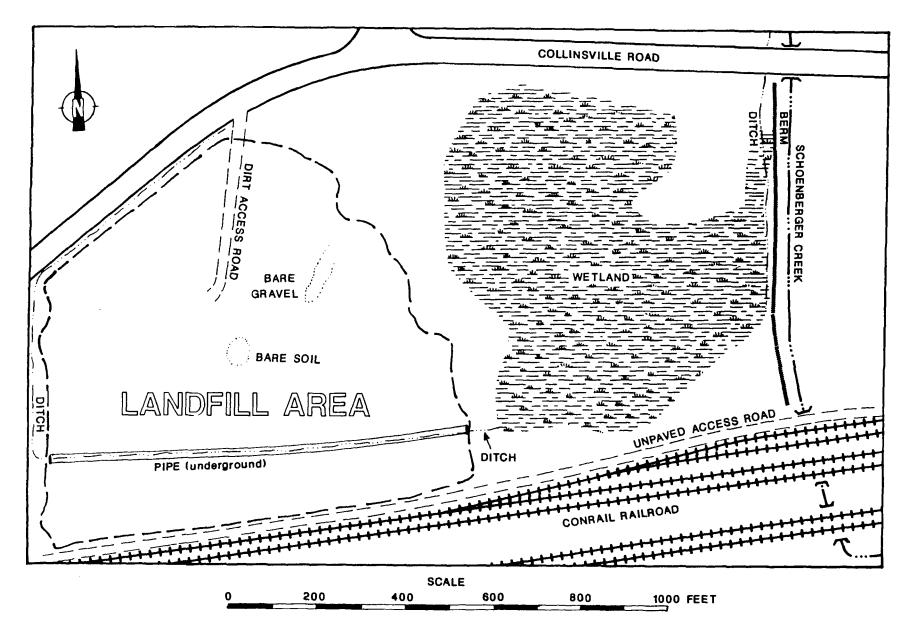


FIGURE 3-1 SITE FEATURES

The north border of the site is formed by Collinsville Road. A drainage ditch extends between Collinsville Road and the north side of the fill area. This ditch flows west, turns south at the northwest corner of the fill area, and extends along the western border of the site. The ditch appears to terminate near the southwest corner of the fill area. A pipe located underneath the landfill allows the water in the drainage ditch to flow underneath the landfill (Child 1972). The ditch reappears on the eastern side of the fill area and then empties into the on-site wetlands on the eastern portion of the site.

Another drainage ditch is located along the eastern edge of the site west of the earthen berm that forms the eastern boundary of the site. East of the berm is an intermittent stream called Schoenberger Creek that flows north underneath a bridge on Collinsville Road. The drainage ditch continues through a culvert beneath the bridge on Collinsville Road and empties into Schoenberger Creek approximately 500 feet northeast of the site.

An unpaved access road extends along the south side of the site, just north of the Conrail railroad tracks.

Access to the site from all boundaries is unrestricted. Primary access to the site is from Collinsville Road via a dirt access road that extends through the center of the fill area. At the time of the SSI, this access road was overgrown with thick vegetation.

FIT photographs from the SSI of the Metro site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On May 8, 1991, FIT collected two leachate well samples and one co-located leachate well sample, and eight soil/sediment samples. On May 9, 1991, FIT collected four monitoring well samples. FIT's offer to provide a portion of the on-site soil/sediment, monitoring well, and leachate samples to the site representative was declined.

<u>Soil/Sediment Sampling Procedures.</u> Seven soil/sediment samples were collected on-site, and one soil sample was collected off-site. Five of these samples were soil samples and three were sediment samples collected from the drainage ditches on-site.

Soil sample S3 was collected from an area of bare soil in the center of the fill area (see Figure 3-2 for on-site soil/sediment sampling locations). This location was selected because of its absence of vegetation. Soil sample S4 was collected from a location at the northeastern edge of the fill area, adjacent to the on-site low-lying wet-Sample S4 was collected from a location where discolored soils and stressed vegetation were observed. Soil sample S5 was collected from the eastern edge of the fill area, approximately 450 feet south of soil sample S4. Sample S5 was collected to determine whether TCL compounds and TAL analytes had migrated from the fill area to the wetlands on-site. Soil sample S6 was collected from a location at the northwest corner of the site alongside the drainage ditch. Sample S6 was collected to determine whether TCL compounds or TAL analytes are migrating from the fill area into the drainage ditch, which flows between the site and the adjacent property, which is occupied by wetlands. Soil sample S8 was collected as a potential background sample from a location approximately 700 feet east of the site (see Figure 3-3 for off-site soil sampling location). Sample S8 was collected from an area that appeared to be undisturbed to determine the representative chemical content of soils in the vicinity of the site.

Sediment samples S1 and S2 were both collected from the drainage ditch located along the west edge of the berm on the site's east side to determine whether TCL compounds or TAL analytes could potentially migrate via surface water from the fill area to the berm. Sediment sample S1 was collected in the drainage ditch from a location approximately 300 feet north of the railroad tracks. Sediment sample S2 was collected in the drainage ditch from a location approximately 200 feet south of Collinsville Road. Sediment sample S7 was collected from the northwestern corner of the site in the drainage ditch located along the northern edge of the fill area. Sample S7 was collected in order to determine whether TCL compounds or TAL analytes had migrated from the fill area to the drainage ditch.

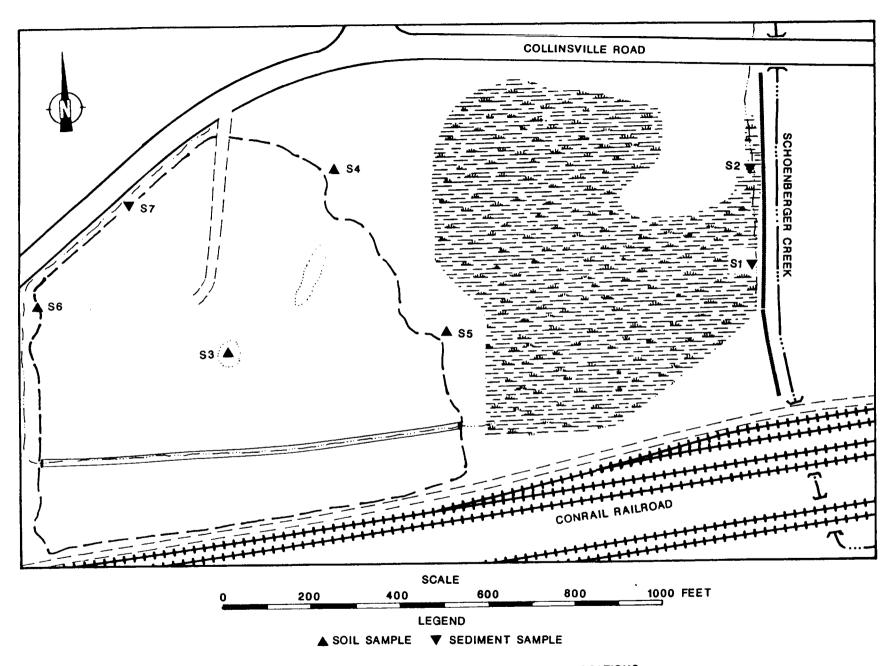


FIGURE 3-2 ON-SITE SOIL/SEDIMENT SAMPLING LOCATIONS

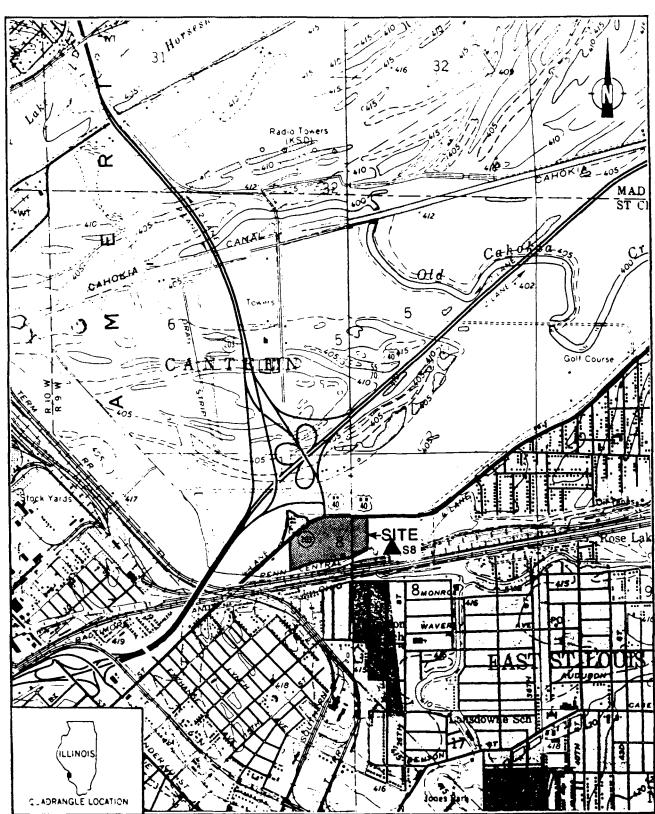
All soil/sediment samples were grab samples collected at depths no greater than 6 inches. Material for each surface sample was collected with a stainless steel spoon and a hand trowel. The sample portions collected for volatile organic analysis were transferred directly to sample bottles. The remaining sample portions were placed into a stainless steel bowl, mixed, and then transferred to the appropriate sample bottles, using a stainless steel spoon or a hand trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil/sediment samples. The procedures included the scrubbing of all equipment (e.g., trowel, stainless steel spoons, and bowl) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil/sediment samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil/sediment samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

Monitoring Well Sampling Procedures. Five monitoring wells were observed on-site. A pair of nested monitoring wells (one shallow [MW3] and one deep [MW1]), is located in the southeast corner of the site. Another pair of nested wells is located at the northeast corner of the site. The deeper of this pair, monitoring well (MW4), was sampleable. However, FIT discovered that the casing of the shallow groundwater monitoring well (G14S) was bent at its base. The fifth monitoring well, MW2, is located approximately 100 feet from the edge of the fill area in the wetlands. FIT could not find the other six monitoring wells that IEPA indicated were present at the site.

Monitoring well samples MW1 and MW3 were collected from on-site monitoring wells located in the southeast portion of the site (see Figure 3-3 for monitoring well sampling locations). Monitoring well sample MW2 was collected from a monitoring well located in the southcentral portion of the site Samples MW1, MW2, and MW3 were collected in order to determine whether TCL compounds and TAL analytes were migrating to groundwater. It is assumed that local groundwater flow is in the direction of wetlands located east and west of the fill area. Regional groundwater flow is assumed to flow westerly toward the Mississippi River, however, no groundwater samples were collected on the western



SOURCE: USGS, Granite City, IL-MO Quadrangle, 7.5 Minute Series, 1954, Photorevised 1988 & 1974; Monks Mound, IL Quadrangle, 7.5 Minute Series, 1954, Photorevised 1968 & 1974.

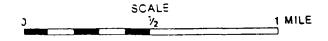


FIGURE 3-3 OFF-SITE SOIL SAMPLING LOCATION

side of the landfill because no wells could be located in this area. Monitoring well MW2 was sampled because of its proximity to the fill area. A potential upgradient sample was collected from monitoring well MW4 because it is the deepest monitoring well and is located the farthest distance from the fill area. The monitoring wells were locked and capped and appeared to be in good condition at the time of the SSI. Well depth and depth to water measurements were collected by FIT during the SSI (see Table 3-1 for monitoring well data).

In accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements, a duplicate monitoring well sample and a field blank sample were collected. The duplicate sample was collected at location MW1. The field blank sample was prepared from distilled water.

All groundwater monitoring wells were purged of three to five volumes of standing water prior to the collection of each sample. The samples for volatile organic analysis were collected first. All groundwater monitoring well samples were collected with stainless steel bailers that had been scrubbed with a solution of detergent (Alconox) and distilled water, and triple-rinsed with distilled water prior to the collection of each sample (E & E 1987).

As directed by U.S. EPA, all groundwater monitoring well samples were analyzed using the U.S. EPA CLP.

Leachate Well Sampling Procedures. Leachate well samples LW1 and LW2 were collected from on-site leachate monitoring wells to determine whether TCL compounds and TAL analytes were present in leachate beneath the landfill (see Figure 3-4 for leachate well sampling locations). Sample LW1 was collected from a leachate well located near the southwest corner of the fill area, approximately 100 feet north of the railroad tracks. Sample LW2 was collected from a well near the northeast corner of the fill area, approximately 400 feet south of Collinsville Road. Leachate well depths and depths to leachate measurements were not collected by FIT during the SSI. The leachate wells that were sampled were locked and capped and appeared to be in good condition at the time of the SSI.

In accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements, a duplicate leachate well sample and a field blank sample were collected on each day of sampling. The duplicate sample was

Table 3-1
MONITORING WELL DATA*

| FIT Well Designation | IEPA Well Designation | Well Depth (feet) | Depth to Water (feet) |
|-------------------------|--------------------------|----------------------|-----------------------------|
| MW1 | G15D | 43.7 | 11.2 |
| MW2 | G607 | 20.0 | 3.5 |
| MW3 | G15S | 17.6 | 4.4 |
| MW4 | G14D | 57.3 | 9.6 |

^{*} Top of Casing could not be determined because no well logs are available for the monitoring wells.

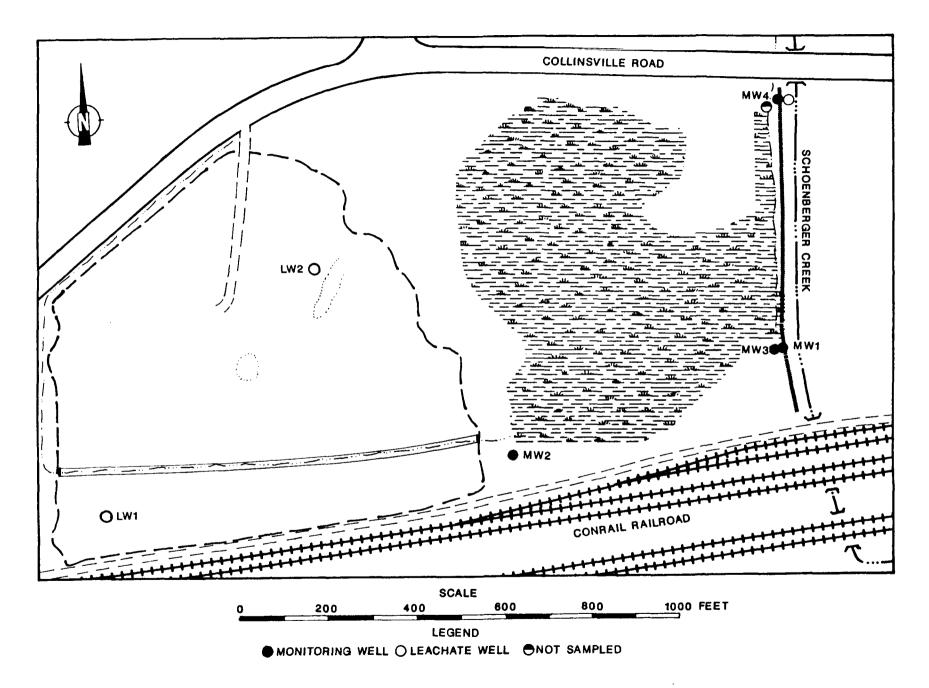


FIGURE 3-4 MONITORING AND LEACHATE WELL LOCATIONS

collected at location LW1. A co-located sample (designated LW2A) was collected and submitted for a partial analysis. Only analysis for TCL compounds was conducted on this additional sample. The field blank sample was prepared from distilled water.

Leachate monitoring wells were not purged of three to five volumes of standing leachate prior to the collection of each sample. All leachate monitoring well samples were collected with stainless steel bailers that had been scrubbed with a solution of detergent (Alconox) and distilled water, and triple-rinsed with distilled water prior to the collection of each sample (E & E 1987). Volatile organic samples were collected first.

As directed by U.S. EPA, all leachate monitoring well samples were analyzed using the U.S. EPA CLP.

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of soil/sediment, monitoring well, and leachate well samples collected by FIT during the SSI of the Metro site. All samples except leachate well samples LW1 and LW2A were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanide. Leachate well sample LW1 was not analyzed for volatile or semivolatile organics; leachate well sample LW2A was submitted only for organics and pesticides/PCBs analysis. Complete chemical analysis results of FIT-collected soil/sediment and leachate and monitoring well samples are provided in Tables 4-1 and 4-2.

Quantitation/detection limits used in the analysis of FIT-collected soil/sediment and leachate well and monitoring well samples are provided in Appendix D.

The analytical data from the chemical analysis of FIT-collected samples for this SSI have been reviewed under the direction of U.S. EPA for validity; the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for usability. Any additions, deletions, or changes resulting from review of the data have been incorporated in the chemical analysis results tables presented in this section.

Table 4-1 (Cont.)

| Sample Collection Information | | | | Sample Numb | 190 | | | |
|-------------------------------|------|-----------|-------------|-------------|-------|------|-----------|-------|
| nd Parameters | \$1 | S2 | \$3 | S4 | \$5 | 56 | S7 | \$8 |
| dius | 2718 | 306B | 75.08 | 390B | 990B | 924B | 4798 | 123B |
| allium | | 0.47B | | ~- | 0.43B | | | 0.30B |
| nadium | 35.4 | 39.1 | 23.7 | 22.3 | 42.7 | 31.7 | 24.7 | 30.4 |
| .nc | 190 | 622 | 3 33 | 120 | 686 | 288 | 526 | 134 |

⁻⁻ Not detected.

COMPOUND QUALIFIERS

DEFINITION .

J

Indicates an estimated value.

This flig identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.

This flag identifies all compounds identified in an analysis at a secondary dilution factor.

ANALYTE QUALIFIEKS

DEFINITION

Analysis by Method of Standard Additions.

Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data mayabe biased high or low. See spike results and laboratory narrative.

Duplicate value outside QC protocols which indicates a possible matrix problem.

Value is real, but is above instrument DL and below CRDL.

Value is above CROL and is an estimated value because of a OC protocol.

Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.

INTERPRETATION

Compound value may be semiquantitative.

Compound value may be semiquantitative. There should be another analysis with a D qualifier, which is to to be used.

Alerts data user to a possible change in the CROL. Data is quantitative.

INTERPRETATION

Value is quantitative.

Value may be quantitative or semiquantitative.

Value may be quantitative or semiquantitative.

Value may be quantitative or semiquantitative.

Value may be semiquantitative.

Value may be semiquantitative.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES
FOR THE METRO SITE SSI

| ample Collection Information | | | | Sampi | le Number | | | |
|--|-------------|--|----------------|------------------|----------------|------------------|--|----------------|
| od Parameters | SI | S2 | S3 | S 4 | \$5 | 36 | 57 | 88 |
| ite | 5/8/91 | 5/8/91 | 5/8/91 | 5/8/91 | 5/8/91 | 5/8/91 | 5/8/91 | 5/8/9] |
| 90 | 1230 | 1245 | 1250 | 1300 | 1320 | 1503 | 1500 | 1345 |
| P Organic Traffic Report Humber | ES387 | ES388 | ES389 | ES390 | ES391 | EHW88 | ehw89 | EHU90 |
| F Inorganic Traffic Report Number | нена93 | HEHA94 | нена95 | HEHA96 | MEHA97 | нена98 | NEHA99 | HELP98 |
| empound Detected values in µg/kg) | | | | | | | | |
| latile <u>Organics</u> | | | * | | | | | |
| thylene chloride | | 150 J | <u> </u> | | | | 6 80 D | |
| etone | 120 | 52 | 30 | | 230- | - 350 | 1,1001 | - - |
| rbon disulfide | 5] | .*4 | 33 | | | 6J | -1-1 | 4 J |
| -butanone (MEK) | , | | | • • | | | 4300 | |
| nzene | | | - - | · | 73 | | | |
| luene | 21. | | | | 4 4J | 4.1 | <u> </u> | . 2J |
| lorobenzene | | | · · · · | - - | 2,500E | 100 | | |
| nivolatile Organica | 4.0 | | | ٠. نا | | | en e | |
| uor anthene | | | | | · | | 1,200J | |
| rene | | | | , | | • | 970J | |
| 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | | er i i i i i i i i i i i i i i i i i i i | | | | |). | + 4 |
| esticides/PCBs | | | 4.6 | - | | | | . • |
| eldrin | | | 44 | - | | | | ~- |
| nalyte efected | | | | | | مد دم | | |
| values in 1971a) is | | | • | | | | the second second | |
| lypinum | 14.000 | 18,600 | 10,100 | 11,500 | 22,300 | 15,600 | 7,650 | 13,100 |
| | 5.lNj | 8.3NJ | - 4.5NJ | 11.9NsJ | 7.1NJ | 5.2NJ - | 5.8NJ | 9.2Ns |
| | . 159★ | 591* | 193★ | 223 1 | 403₺ | 323 1 | 333* | 2414 |
| eryll ru | 1.38J | 1.6BJ | 0.63BJ | 0.75BJ | 1.9BJ | 1.18J | 0.57BJ | 1.11 |
| adaius | _ :2.91 | 10.1. | 4.3 | | 14.6 | 2.9J | 6.9 | 3.33 |
| alcius | 7.7.240 | 7,260 | 4,690 | 16,400 | 9,930 | 34,100 | 27,300 | 13,600 |
| The second secon | 3.5 | | 25.8 | 22.0 | 32.0 | 27.6 | 78.2 | 22.4 |
| opalt | 10.98 | 10.68 | 6.78 | 9.3k | 11.4B | 7.7B | 6.3B | 9.9 |
| npper | 21.7 | 46.5 | 31.1 | 22.1 | 91.2 | 34.2 | 54.4 | 25.2 |
| ************************************** | 22,800 | 36,100 | 17,900 | 35,900 | 31.900 | 41,000 | 16,700 | 21,500 |
| ead | 75.7ksJ | 125ÅJ | 105 k J | 29.5±3 | 109 k J | 66.4+J | <u>28</u> 4∔J | 60.1* |
| agnesium | 5,360 | 4.670 | 3,050 | 4,910 | 6.000 | 5,490 | 4,490 | 6,500 |
| anganese | 214 | 381 | 125 | 411 | 479 | 435 | 255 | 605 |
| ercnry | | 0.46 | 0.20 | | | | | |
| ickel | 26.1 | 27.4 | 21.0 | 28.8 | 47.7 | 32.1 | 21.1 | 28.8 |
| otassium | 2,780 | 3,470 | 1,910 | 2,710 | 4,210 | 3,660 | 1,500B | 3,050 |
| | | | | | | | | 0.000 |

±

Table 4-2

RESULTS OF CHEMICAL ANALYSIS OF

FIT-COLLECTED MONITORING WELL SAMPLES

FOR THE METRO SITE SSI

| Sample Collection Information | | | Sam | ple Number | | |
|--------------------------------|----------------|-----------|---------|------------|-------------|------------|
| and Parameters | MW1 | Duplicate | MW2 | MW3 | MW4 | Blank |
| Date | 5/9/91 | 5/9/91 | 5/9/91 | 5/9/91 | 5/9/91 | 5/9/91 |
| Cime | 1130 | 1130 | 1020 | 1230 | 1200 | 1300 |
| rganic Traffic Report Number | EKX66 | EHW94 | EMN98 | EHW91 | EHW9 2 | EJW99 |
| norganic Traffic Report Number | MELP99 | MELT96 | MELT91 | MELT92 | MELT93 | MELT97 |
| Cemperature (°C) | 13 | 13 | 14 | 15 | 15 | 1.8 |
| Specific Conductivity (µmhos) | 1,334 | 1,334 | 4,520 | 1,326 | 799 | 8.13 |
| Н | 6.08 | 6.08 | 6.27 | 6.6 | 7.09 | 6.71 |
| ompound Detected | | | | | | |
| values in $\mu g/L$) | | | | | | |
| olatile Organics | | | | | | |
| hloroform | | | | | | 4 J |
| oromodichloromethane | | | | | | 3J |
| ibromochloromethane | | | | | | 2.J |
| enzene | | | 10 | | | |
| hlorobenzene | | | 120 | | | |
| emivolatile Organic† | | | | | | |
| nalyte Detected | | | | | | |
| values in ug/L) | | | | | | |
| ntimony | 45.2B | | 73.4 | 44.5B | | |
| rsenic | 2.4BWJ | | 15.1J | 2.2BJ | 6.4BJ | |
| arium | 101B | 98.0B | 549 | 235 | 50.0B | |
| eryllıum | _ | 1.3BJ | | | | |
| alcium | 162,000 | 157,000 | 368,000 | 152,000 | 80,400 | 13,400 |
| obalt | - - | 5.7B | 6.7B | | | |
| opper | | 6.1BJ | | | 13.3BJ | 7.1BJ |
| ron | 20.88 | | 39,200 | 5,600 | 24.4B | |

Table 4-2 (Cont.)

| Sample Collection Information | Sample Number | | | | | | |
|-------------------------------|---------------|-----------|---------|--------|---------|----------------|--|
| and Parameters | MW1 | Duplicate | MW2 | EWM | MW4 | Blank | |
| ead | | | 1.4B | 1.5BW | 1.3B | | |
| nagnesium | 33,600 | 31,900 | 113,000 | 28,800 | 27,300 | 3,8108 | |
| manganese | 335 | 323 | 2,320 | 1,080 | 4.8BJ | 1.8BJ | |
| nickel | 27.7B | 22.5B | 50.0 | | | | |
| ootassium | 4,920BJ | 4,470BJ | 30,100J | 7,350J | 5,250J | 13,000 | |
| elenium . | 1.5BNWJ | | | | | | |
| sodium | 38,000 | 37,100 | 199,000 | 29,800 | 14,900J | 3,710B | |
| anadium | 4.0BJ | | | | | - - | |
| zinc | 18.4BJ | 22.6J | 12.3BJ | 15.4BJ | 142 | 6.7B | |

⁻⁻ Not detected.

⁺ The semivolatile analysis results for sample MW1 are deemed unusable (R).

Table 4-2 (Cont.)

| COMPOUND QUALIFIERS | DEFINITION | INTERPRETATION |
|---------------------|---|---|
| J | Indicates an estimated value. | Compound value may be semiquantitative. |
| R | Results are unusable due to a major violation of QC protocol. | Compound value is not usable. |
| ANALYTE QUALIFIERS | DEFINITION | INTERPRETATION |
| N | Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative. | Value may be quantitative or semi- quantitative. |
| В . | Value is real, but is above instrument DL and below CRDL. | Value may be quantitative or semi- quantitative. |
| J | Value is above CRDL and is an estimated value because of a QC protocol | Value may be semiquantitative. |
| W | Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance. | Value may be semiquantitative. |

Table 4-3
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED LEACHATE WELL SAMPLES
FOR THE METRO SITE SSI

| Sample Collection Information | | | Sample Numbe | <u>r</u> | |
|-------------------------------------|--------|-----------|--------------|----------|---------|
| and Parameters | LW1 | Duplicate | LW2 | LW2A+ | Blank |
| Date | 5/8/91 | 5/8/91 | 5/8/91 | 5/8/91 | 5/8/91 |
| rime | 1645 | 1645 | 1600 | 1600 | 1630 |
| CLP Organic Traffic Report Number | EKF57 | EHM03 | EHM02 | EHM02 | EHM04 |
| CLP Inorganic Traffic Report Number | MELT98 | MEKNO2 | MELT99 | + | MEKNO3 |
| Compound Detected | | | | | |
| values in $\mu g/L)$ | | | | | |
| Volatile Organics | | | | | |
| methylene chloride | NR | 12,000B | 4,100B | 1,300D | |
| acetone | NR | | 6,400J | 2,600BD | |
| 2-butanone (MEK) | NR | | 3,400 | 4,100JD | |
| l,1,1-trichloroethane | NR | 1,200J | | | |
| penzene | NR | 6,500 | | | |
| 1-methyl-2-pentanone | NR | | 10,000J | 6,600DJ | |
| coluene | NR | | 1,800 | 1,200D | |
| chlorobenzene | NR | 140,000 | | | |
| Semivolatile Organics | NR | ++ | ++ | ++ | ++ |
| Pesticides/PCBs | | | | | |
| Aroclor 1242 | 130 | 36 | | | |
| Analyte Detected | | | | | |
| (values in µg/L) | | | | | |
| aluminum | | | 14,600 | | |
| antimony | 30.2B | | 31.8B | | |
| arsenic | 3.3BWJ | 1.2BJ | 16.5J | | |
| parium | 469 | 464 | 1,220 | | |
| peryllium | | | 2.1B | | |

Table 4-3 (Cont.)

| ample Collection Information | Sample Number | | | | |
|------------------------------|---------------|-------------|---------|-------|-------------|
| nd Parameters | LW1 | Duplicate | LW2 | LW2A+ | Blank |
| alcium | 138,000 | 138,000 | 138,000 | | |
| hromium | | | 47.1 | | |
| obalt | 6.3B | 5.9B | 13.2B | | ~ |
| opper | | | 119 | | 23.5BJ |
| ron | 4,230 | 3,650 | 67,500 | | ~- |
| e a d | 4.1 | 2.3B | 108 | | |
| agnesium | 69,800 | 68,300 | 56,400 | | |
| anganese | 183 | 185 | 609 | | |
| ercury | | | 0.53 | | |
| ickel | | 13.0B | 74.2 | | |
| otassium | 79,100 | 78,000 | 65,100 | | |
| ilver | | 5.6B | | | |
| odium | 253,000 | 249,000 | 120,000 | | 102BJ |
| andium | | | 26.5B | | |
| inc | 7.1BJ | 11.7BJ | 406 | | |

⁺ Sample LW2A was analyzed only for organics and pesticides/PCBs.

⁻⁻ Not detected.

NR Analysis for volatile and semivolatile organics was not performed for samples LW1.

 $[\]uparrow \uparrow$ The semivolatile analysis results for the duplicate, samples LW2 and LW2A, and the blank are deemed unusable (R).

Table 4-3 (Cont.)

| COMPOUND | ND QUALIFIERS DEFINITION | | INTERPRETATION | | |
|------------|--------------------------|---|--|--|--|
| J | | Indicates an estimated value. | Compound value may be semiquantitative. | | |
| В | | This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. | Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone). | | |
| D | | This flag identifies all compounds identified in an analysis at a secondary dilution factor. | Alerts data user to a possible change in the CRQL. Data is quantitative. | | |
| R | | Results are unusable due to a major violation of QC protocol. | Compound value is not usable. | | |
| ANALYTE QU | UALIFIERS | DEFINITION | INTERPRETATION | | |
| В | | Value is real, but is above instrument DL and below CRDL. | Value may be quantitative or semi- quantitative. | | |
| J | | Value is above CRDL and is an estimated value because of a QC protocol. | Value may be semiquantitative. | | |
| W | | Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance. | Value may be semiquantitative. | | |

DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the Metro site. The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

The analysis of FIT-collected leachate well samples indicated the presence of TCL compounds and TAL analytes including toluene in LW2 (1,800 μ g/L); acetone in LW2 (6,400J μ g/L); methylene chloride in LW2 (4,100B μ g/L); 4-methyl-2-pentanone in LW2 (10,000J μ g/L); Aroclor 1242 in LW1 (130 μ g/L); antimony in LW2 (31.8B μ g/L); and arsenic in LW2 (16.5J μ g/L) (see Table 4-2 for definition and interpretation of qualifiers).

The analysis of FIT-collected downgradient monitoring well samples revealed TCL compounds and TAL analytes including chlorobenzene (120 μ g/L), benzene (10 μ g/L), manganese (2,320 μ g/L), arsenic (15.1J μ g/L), and antimony (73.4 μ g/L), all in MW2.

These were all detected at levels above those of potential upgradient sample MW4. The chlorobenzene and antimony may be attributable to the site based on the following information.

• Chlorobenzene and antimony were not detected in the upgradient monitoring well sample.

- Chlorobenzene was detected in on-site leachate well LW1 at 140,000 µg/L.
- Antimony was detected in on-site leachate well LW2 at 31.8B $\mu g/L$).

However, attribution cannot be conclusively established at this time because no monitoring wells could be found on the northwest side of the site between the abandoned gas station and the landfill and because groundwater flow in the immediate area is suspected to be to the east and west toward the wetlands on either side of the site, therefore it is difficult to identify an upgradient well.

The analysis of FIT-collected soil samples revealed TCL compounds and TAL analytes including chlorobenzene in samples S5 (2,500E $\mu g/kg$) and S6 (100 $\mu g/kg$), Dieldrin (44 $\mu g/kg$) in S3, and mercury in S3 (0.20 mg/kg) (see Table 4-1 for definition and interpretation of qualifiers). These TCL compounds and TAL analytes appear to be attributable to the site based on the following information.

- Chlorobenzene and mercury were detected in leachate within the fill area.
- Past inspections performed by IEPA revealed many noncompliances and violations of the Rules and Regulations for Refuse Disposal Sites and Facilities, including disposal of liquids or hazardous substances (IPCB 1973).
- Past sampling of leachate wells by IEPA detected the presence of Dieldrin (IEPA-DCPC 1979).

A potential exists for TCL compounds and TAL analytes to migrate from the site to groundwater in the area of the site based on the following information.

 There is no indication that the site has an engineered liner.

- TCL compounds and TAL analytes were detected in samples collected from on-site leachate wells, monitoring wells, and soils.
- Arsenic was detected in leachate wells and monitoring wells on-site.

The potential for TCL compounds and TAL analytes to migrate from the site to groundwater is also based on the following geologic information. The Metro site lies near the base of an abandoned channel of the Mississippi River in the broad Mississippi River valley. The geology of the site area consists of recent valley-fill alluvium, glacial outwash alluvium, and bedrock. The recent valley-fill alluvium has been deposited by the meandering and periodic flooding of the Mississippi River (USGS 1954, 1954a). These unconsolidated deposits consist of interfingering bodies of gravel, sand, silt, and clay that were formed as channel lag, point bars, crevasse-splay, floodplain, and slough or oxbow lake deposits (Reineck and Singh 1980; see Appendix B for well logs of the area of the site).

Glacial outwash deposits of both Illinoian and Wisconsinan ages underlie the recent alluvium. These older deposits and the recent alluvium both constitute the total thickness of valley-fill material which was likely deposited as an uninterrupted sequence (Southwestern Illinois Metropolitan and Regional Planning Commission [SIMRPC] 1983). Well logs in the area of the site indicate that the thickness of the valley-fill material ranges from approximately 115 to 265 feet. These well logs also indicate that the deposits are generally very coarse, and as large as boulders near the base. Near the site, the valley-fill deposits overlie shale of Carboniferous age. More regionally, this shale is a minor part of massive limestone and dolomite units known as the Lower Chesterian Series (SIMRPC 1983; Appendix E). Because the bedrock is of low permeability and has poor water quality with depth, the bedrock does not constitute an important aquifer in the area (Schicht 1965).

The principle aquifer in the site area is the unconsolidated valley-fill material and this material is considered to be the aquifer

of concern (AOC). Well logs from the site area indicate that local wells are screened primarily in sand and gravel units in the unconsolidated deposits at relatively shallow depths and groundwater is drawn from sand and gravel deposits within the valley-fill. According to area well logs, the depth to groundwater in the area of the site is as shallow as 11 feet below the ground surface.

Regional groundwater flow in the area of the site is to the westsouthwest toward the Mississippi River but may deviate from this locally because of the presence of wetlands to the east and west of the site.

Most of the population within a 3-mile radius of the site obtains its drinking water from Illinois-American Water Company, which draws its water from the Mississippi River more than 3 miles upstream from the site (Roe 1987).

Outside of the Illinois-American Water Company water supply area and the Mound Public Water Supply, which is located approximately 4 miles northeast of the site, approximately 375 persons obtain drinking water from private wells within the 3-mile radius of the site, and are therefore potential targets for groundwater contamination. This population was determined by counting houses on United States Geological Survey (USGS) topographic maps of the area (USGS 1954, 1954a, 1954b, 1954c), 105 and 30, for Madison County and St. Clair County, respectively, and multiplying by the 1980 Census averages of 2.75 persons per household for Madison County and 2.89 persons per household for St. Clair County (U.S. Bureau of the Census 1982). The nearest drinking water well is located approximately 1/4 mile north of the site.

According to the University of Illinois Cooperative Extension Service, there are also approximately 400 acres of farmland within a 3-mile radius of the site that are irrigated with groundwater (Hardiman 1985).

5.3 SURFACE WATER

The drainage ditch that extends along the berm on the east border of the site empties into Schoenberger Creek located 150 feet east of the berm. Schoenberger Creek empties into a nameless river located approximately 1/4 mile northwest of the site which drains into the Cahokia Canal located approximately 1 1/2 miles northwest of the site.

No surface water samples were collected during the SSI of the Metro site. However, on-site sediment samples (S1 and S2) were collected from the drainage ditch that extends along the eastern edge of the site. TCL compounds and TAL analytes were detected in sediment samples including acetone (1,100D), fluoranthene (1,200J), and chromium (78.2 mg/kg) in S7, and mercury (0.46 mg/kg) and cadmium (10.1 mg/kg) in S2. These are not attributable to the site because no background sediment sample was collected.

A potential exists for TCL compounds and TAL analytes to migrate from the site to surface water in the area of the site based on the following information.

- Mercury was detected in FIT-collected sediment samples from the drainage ditch on-site. Mercury was also detected in leachate well LW2 at 0.53 mg/L.
- TCL compounds and TAL analytes were detected in on-site sediment samples at concentrations above those of the background soil sample, including fluoranthene in S7 (1,200J µg/kg) and pyrene (970J µg/kg) in S7.
- Leachate seeps have been documented to have flowed off-site into surface waterways (IPCB 1973).
- Wetlands are located on-site and adjacent the west border of the site.
- The drainage ditch on-site empties into Schoenberger Creek approximately 500 feet northeast of the site.
- The site is located in a 100-year floodplain.

No surface water intakes are located within 3 miles downstream of the site. It is not known whether the unnamed river or Cahokia Canal is currently used. The Mississippi River is used for recreational and commercial purposes (Tri Cities Area Chamber of Commerce 1991).

5.4 ATR

A release of TCL compounds or TAL analytes to the air at the Metro site was not documented during the SSI of the Metro site. During the reconnaissance inspection, FIT site-entry instruments (OVA 128, combination oxygen meter and explosimeter, and hydrogen cyanide monitor) did not detect levels that deviated from background concentrations at the site, with the exception of methane. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does not exist for TCL compounds and TAL analytes to migrate from the site via windblown particulates, based on the following information.

- The site is generally well vegetated.
- The site is located in a swampy area that would inhibit dusty conditions.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and an interview with Bob Belba, Fairmont City Fire Chief, no documentation exists of an incident of fire or explosion at the site since approximately 1982 (Belba 1991). According to state documentation, fires have occurred beneath the ground surface of the site in February 1977, and August 1978 (McCarthy 1977; Mann and Mensing 1978). The cause of these fires is not known (Mensing 1991). FIT site-entry equipment readings did not indicate a potential for fire or explosion at the site at the time of the SSI.

However, because no safety precautions have been taken to prevent further fires at the site, a potential for fire and/or explosion at the site does exist. This potential is based on the following information.

- Past fires have occurred beneath the ground on-site (McCarthy 1977; Mann and Mensing 1978).
- Flammable liquids, toluene and chlorobenzene, were detected in FIT-collected leachate samples.

• Fairmont City Fire Chief Bob Belba indicated that a fire could possibly occur on-site (Belba 1991).

The population within a 2-mile radius of the site potentially affected by a fire or explosion is 17,654 persons. This population was calculated by counting houses within a 2-mile radius of the site on USGS topographic maps (USGS 1954, 1954a, 1954b, 1954c) and multiplying this number by persons-per-household values of 2.89 for St. Clair County and 2.75 for Madison County, Illinois (U.S. Bureau of the Census 1982).

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representatives, no incidents of direct contact with TCL compounds or TAL analytes at the Metro site have been documented.

There is a potential for the public to come into contact with TCL compounds and TAL analytes at the site. This potential is based on the following information.

- Access to the site is unrestricted.
- Flow of leachate off-site was documented in 1971 and 1972 (IPCB 1973; Becker 1971).
- Surface soil samples indicate the presence of TCL compounds and TAL analytes.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the Metro site is 6,505 persons. The nearest resident is approximately 350 feet south of the site. This population was calculated by counting houses within a 1-mile radius of the site and multiplying this number by a persons-per-household value of 2.89 for St. Clair County, Illinois (USGS 1954, 1954a, 1954b, 1954c; U.S. Bureau of the Census 1982).

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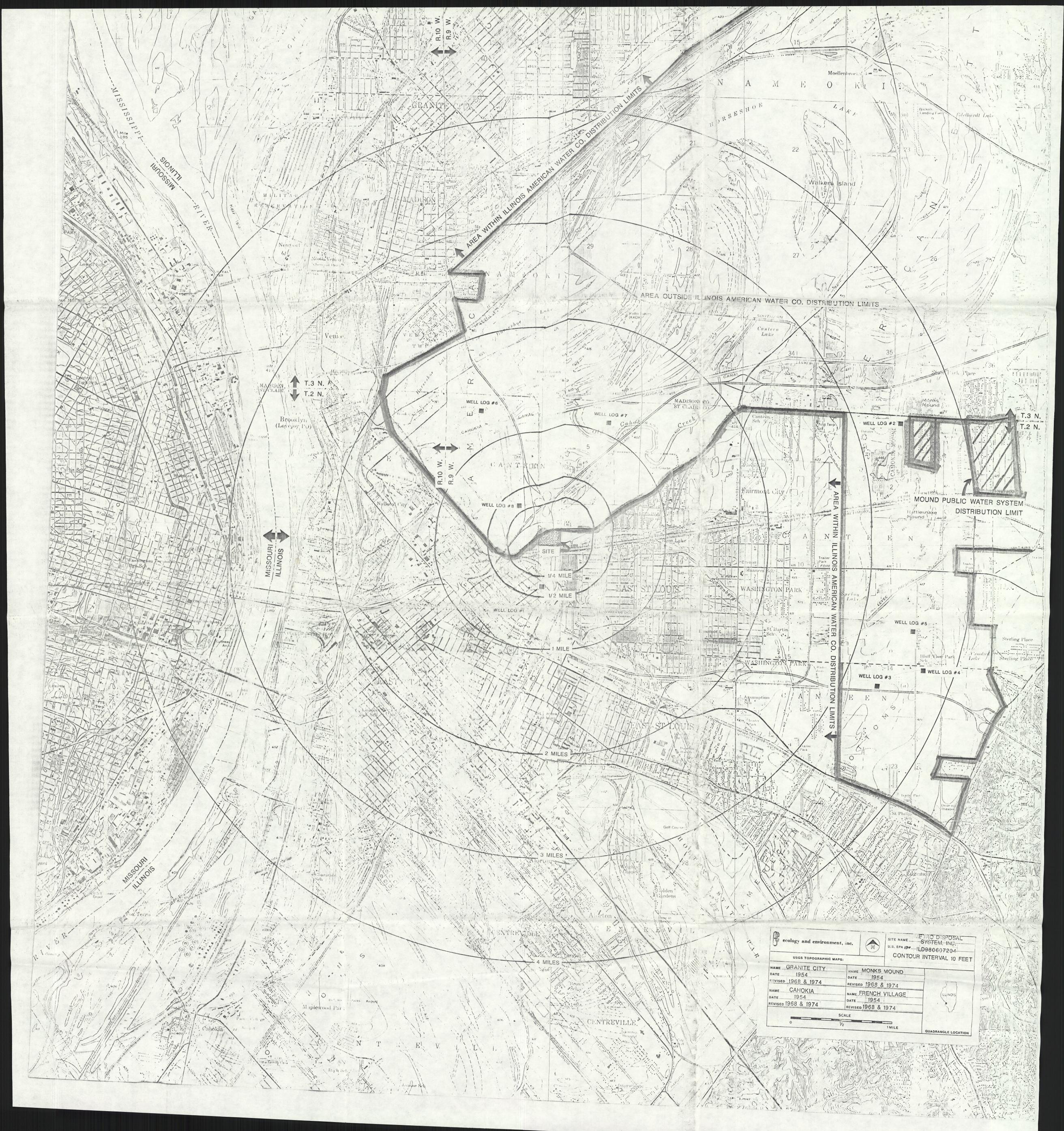
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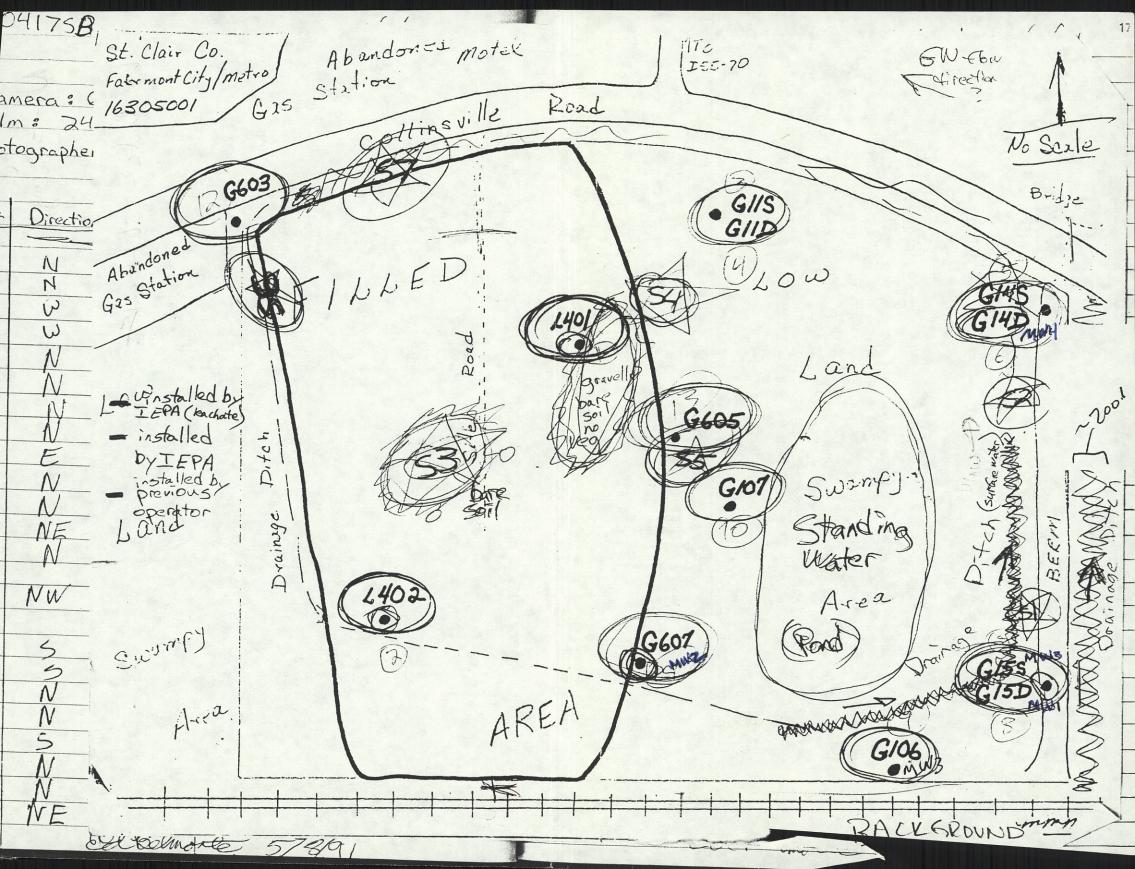
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- ______, 1988, Office of Solid Waste and Emergency Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.
- USGS, 1954, photorevised 1968, 1974, Cahokia, Illinois-Missouri Quadrangle, 7.5 Minute Series: 1:24,000.
- , 1954a, photorevised 1968, 1974, French Village, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.
- , 1954b, photorevised 1968, 1974, Granite City, Illinois-Missouri Quadrangle, 7.5 Minute Series: 1:24,000.
- USGS, 1954c, photorevised 1968, 1974, Monks Mound, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

7522:9

APPENDIX A

SITE 4-MILE RADIUS MAP



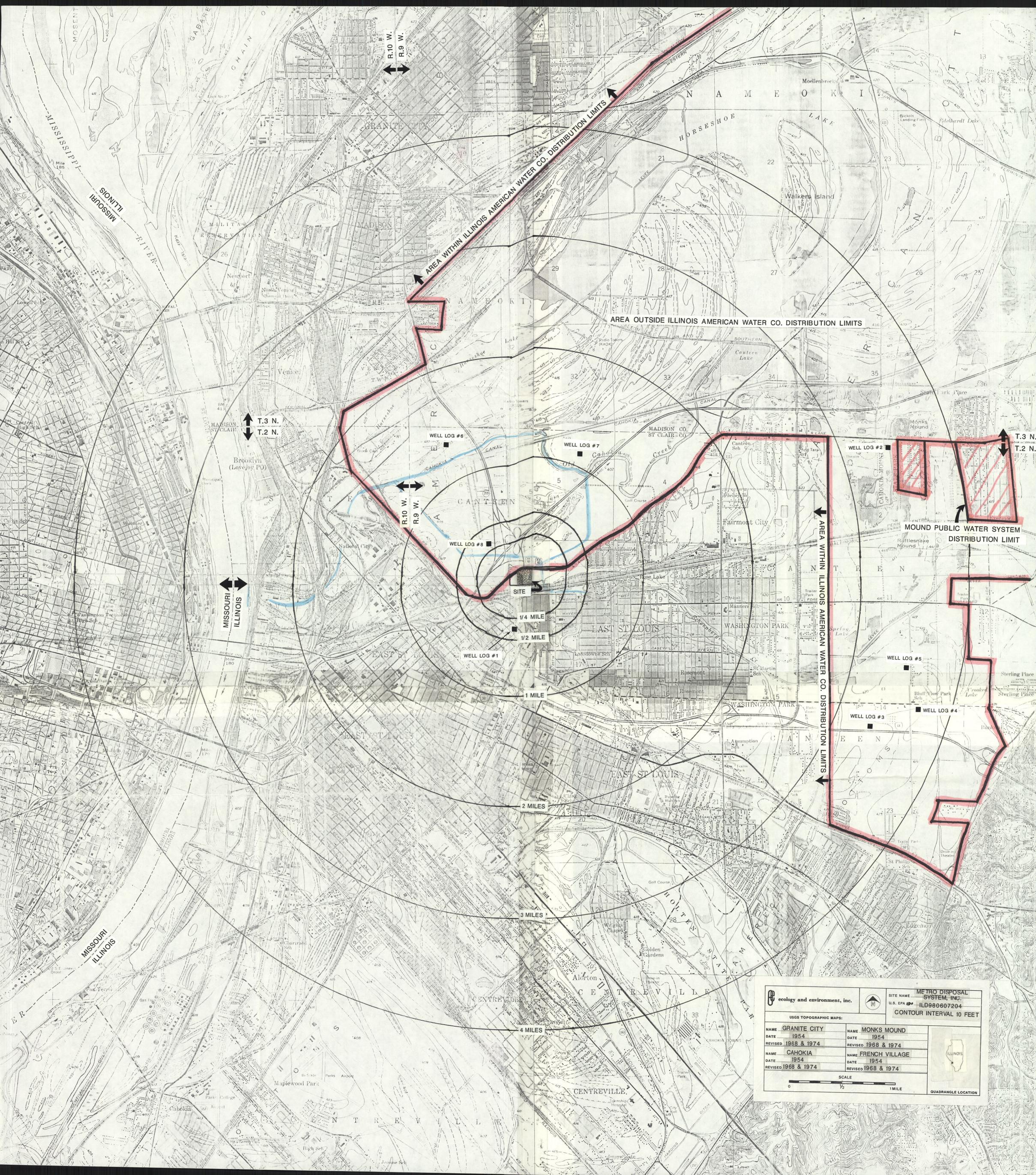




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SCALE:1" = 400

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APPENDIX B

U.S. EPA FORM 2070-13



Site Inspection Report

\$EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 1 - SITE LOCATION AND INSPECTION INFORMATIO

| L IDENTIFICATION | | | | | |
|------------------|----------------|--|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | | |
| IL_ | D980607104 | | | | |

| PART 1 - SITE LOCATION AND INSPECTION INFORMATION | | | | | | |
|---|---|--|-------------------|---------------------------------------|---|--|
| II. SITE NAME AND LOC | ATION | • | | | | |
| O1 SITE NAME Rage, common, er | descriptive name of sitely . | | 02 STRE | ET, ROUTE NO., OR SPI | ECIFIC LOCATION IDENTIFIER | |
| METRO DSPL SYST TNC | | | ROUT | | | |
| 43 CITY | | | 04 STAT | E 05 ZIP CODE | 06 COUNTY | 07COUNTY 08 CONG COOE DIST |
| FAIRMOUNT | CITY | | IL | 10.01 | ST. CLAIR | 163 23 |
| I NO COORDINATES | , , , , , , , , , , , , , , , , , , , | 10 TYPE OF OWNERSHI | | | C. STATE D. COUNTY | (DE. MUNICIPAL |
| | D9 D D 7 L 5.0 | ☐ F. OTHER - | | | G. UNKNO | |
| III. INSPECTION INFORM | AATION To2 site status | 03 YEARS OF OPERAT | | · · · · · · · · · · · · · · · · · · · | ALLEC | ng of Caustic |
| OI DATE OF INSPECTION | D ACTIVE | · - | 470 | 1 1974 | ICASI DAMA CO | instruct until |
| MONTH DAY YEAR | ■ NACTIVE | | NING YE | | 1480. | • |
| 04 AGENCY PERFORMING INS | | Falling and Saff D | K | | | j |
| A.EPA B.EPAC | ONTRACTOR ECOLOSTY | rame of gumi TUNIN COMMITMENT | TELT C. M | IUNICIPAL [] D. MU | INICIPAL CONTRACTOR | (Mame of Britis) |
| DE. STATE DF. STATE | CONTRACTOR | ione of firm) | □ G. O | IREK | (Specify) | |
| 05 CHIEF INSPECTOR | | OS TITLE | | | ECOLOGY & | OB TELEPHONE NO. |
| FD BECM ON OTHER INSPECTORS | JONTE | W. KE | SOUR | ICE SPECIAL! | Mamposium a M | |
| | | 10 IIILE | | | THORGANIZATION | 12 TELEPHONE NO. |
| DENEEN R | enford | BIOLOG | 15T | | ETE | (31) 663-948 |
| | | | | _ | 61- | (2.5) |
| NATHAN R | USSELL | CNEOLO | 6-15 | $\overline{\mathcal{L}}_{}$ | EGE | 1312667-9415 |
| ~ | | _ | | • | 615 | (22)(12 0) |
| Tim RODRIG | SIVEZ_ | BIOLOG | 5115 | <u> </u> | EFE | (3,2)663-9415 |
| 17 | | 1_ | | | | 12.21 |
| KELLY MA | CEÀ | 200LD | <u>6015</u> | <u>T</u> | EYE | 1212/1634415 |
| CLIFF FLO | D C ~ A V | (1) | . — | | F: C | 31216639415 |
| 13 SITE REPRESENTATIVES IN | · - · · · · · · · · · · · · · · · · · · | CHEMI | 51 | 15ADDRESS | EIE | 16 TELEPHONE NO |
| | | DISECTOR OF | | C DENN CE | | 4151977-1685 |
| ION FENDE | RGAST | ENV. SERVICE | | Philadel | Phia PA | NO 41 1-1682 |
| مالد بروميم | • | REAC ESTAT | | - | | (2,7)3 , 3 ,,,,,, |
| MARK WARN | אכוב | WANAGEIS | - INDIAMAPOUL, IN | | (317)261.4151 | |
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| <u> </u> | | 1 | i | | | () |
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| _ | | | 1 | | | |
| 17 ACCESS GAINED BY | 18 TIME OF INSPECTION | 19 WEATHER CONDI | TIONS | | | |
| (Check and) B PERMISSION | | | _ | | | |
| □ WARRANT | 10940 | I MID JO | 702 | · SWNY | | |
| IV. INFORMATION AVAIL 01 CONTACT | LABLE FROM | 02 OF (Agency/Organia | edeal | | | 03 TELEPHONE NO. |
| | _ | | | | | |
| ALAN ALT | | V.S.EP | | | I co en | (312)896-0396 |
| 04 PERSON RESPONSIBLE FO | IN SITE INSPECTION FORM | 05 AGENCY | 106 OR | GANIZATION | 07 TELEPHONE NO. | 08 DATE |
| MARK WH | ミ モルモラ | U.S.EPA | EI | £ | 312 663-9415 | 9 25,91 MONTH DAY YEAR |
| EPA FORM 2070-13 (7-81) | V-25- | 10.0 | 1 | 1— 7 ————— | | |

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| V | 7~ |

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

| LIDENTIFICATION | | | | | | |
|-----------------|----------------|--|--|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | | | |
| 14, | 700W A7 174 | | | | | |

| | | | PART 2- WASE | EINFORMATION | · | | |
|----------------------------------|---------------------------------|----------------------------|--------------------------------|--------------------|--|--|--|
| | TATES, QUANTITIES, A | ND CHARACTER | ISTICS | | | | |
| B A SOLID LI E SLURRY must be in | | naebeugeuri naebeugeuri | | | LIBLE 3 L HIGHLY SCROUS 5 J. EXPLOS MINIBLE 5 K. REACT | SIVE IVE PATIBLE PPUCABLE | |
| ML WASTET | | <u> </u> | | | | • | |
| CATEGORY | SUBSTANCE | NAME | DI GROSS AMOUNT | 02 UNIT OF MEASURE | 03 00000000 | | |
| SLU | : SLUDGE | | UNKNOWN | | 3333 | | |
| OĽW | OILY WASTE | | MACAMA | | (S - | ctions 2-3 | 4 < |
| SOL | SOLVENTS | | CHKNOW | | | ARRATIVE SUTTE | 1, 7,3 |
| PSD | PESTICIDES | | MACANAM | <u> </u> | 140 171 | HICKHINE | |
| occ | OTHER ORGANIC C | HEMICALS | UN KNOWN | { | | | - |
| IOC | INORGANIC CHEMI | | C NKNOWS | | - | | |
| ACD | ACIDS | | nhkhomb 060 | <u> </u> | | | |
| BAS | BASES | | UNKNOWN | | - | -, - | |
| MES | HEAVY METALS | | UNKNOWN | | | | <u> </u> |
| IV. HAZAROO | OUS SUBSTANCES (See | Spends for most frequent | _ | | <u> </u> | | |
| 01 CATEGORY | 02 SUBSTANCE | | 03 CAS NUMBER | 04 STORAGE/DIS | POSAL METHOD | 05 CONCENTRATION | 06 MEASURE OF CONCENTRATION |
| | SEETABLE 4 | -1 ² u-> | | | | <u> </u> | |
| | | PRRATIVE | | | | | |
| | 1 | 1 10.00.10.00 | | | | | |
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| W FFFDATA | | | I | | | <u> </u> | L |
| | CKS (See Appendix for CAS fluid | | | | | | |
| CATEGORY | 01 FEEDSTOO | X NAME | 02 CAS NUMBER | CATEGORY | 01 FEEDST | OOK NAME | 02 CAS NUMBER |
| FDS | A/A | | ļi | FDS | | | - |
| FDS | | | | FDS | | | |
| FDS | | | ļ | FDS | | | |
| FDS | _11 | | L | FDS | | | |
| VL SOURCES | OF INFORMATION ACA | Specific references. e.g., | store Bloc. Sample analysis. A | соолы | | | |
| • | FIT FILES ,T | | | | - | | |
| EYEY | ETT SITE I | このろろをしてい |) 1990 1990 |) . | | | |
| PA FORM 2070 | .2.7.2 | | · | | | | |

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION
01 STATE 02 SITE NUMBER

| PART 3 - DESCRIPTION OF H | IAZARDOUS CONDITIONS AND INCIDENT | rs Trub | 480602704 |
|--|---|--------------|------------|
| IL HAZARDOUS CONDITIONS AND INCIDENTS | | | |
| 01 B A GROUNDWATER CONTAMINATION 375 | 02 08SERVED (DATE: 5/8+9/91) 04 NARRATIVE DESCRIPTION FIT | C POTENTIAL | □ ALLEGED |
| | | | |
| See Section 5-2 IN N | Varrative | • | |
| 01 B B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: | 02 © OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | POTENTIAL | C ALLEGED |
| See Section 5.3 | of Narrative | | |
| 01 D.C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: 1 | 02 3 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | D POTENTIAL | C ALLEGED |
| See Section 5-4 in | NARRATIVE | C: POTENTIAL | ☐ ALLEGED |
| 01 ® D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 17,1054 | 04 NARRATIVE DESCRIPTION 8 - 21-78. | L PUIENIME | LI ALLEGED |
| Two separate incidence of fines The Metro site. See Section 5-5 in Narrat | | ite have o | ccured at |
| 01 E E. DRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 4505 | 02 _ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | E POTENTIAL | □ ALLEGED |
| See Section 5-6 iw No | arrative | | |
| 01 III F. CONTAMINATION OF SOIL 18 03 AREA POTENTIALLY AFFECTED: (ACON) | 02 & OBSERVED (DATE: 5-8-91) 04 NARRATIVE DESCRIPTION | D POTENTIAL | □ ALLEGED |
| See Section 5 | i-2 in Narrative. | | |
| 01 B G. DRINGING WATER CONTAMINATION 375 03 POPULATION POTENTIALLY AFFECTED: 375 | 02 I OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | POTENTIAL | C) ALLEGED |
| See Section 5. | -2 in Narrative | | |
| 01 . N. WORKER EXPOSURE/NURY 03 WORKERS POTENTIALLY AFFECTED: | 02 J OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | D POTENTIAL | □ ALLEGED |
| Site is inactive and There o | | ખલ્દ | |
| 01 EL POPULATION EXPOSURE/INJURY 6,505 | 02 - OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | | [] ALLEGED |
| Site is not restricted. | | | |
| of the sile can potentially haccese to sile is not restricted | 1 - | | |
| MORNETO SIME 12 1101 LESANICIE | c. Sec Section 5- | 6 IN Na | Mative |

\$EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

L IDENTIFICATION 01 STATE 02 SITE MARSER
TL D980C07204

| PART 3 - DESCRIPTI | ION OF HAZARDOUS CONDITIONS AND INCIDENTS | |
|---|---|---|
| IL HAZARDOUS CONDITIONS AND INCIDENTS A | | |
| 01 Q J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION | 02 TO OBSERVED (DATE: 3-25.78) D POTENTIAL | 1 |
| - 1 Clarificta massi | he fine was observed by agents of IEP he were also reported in the Illinois Po | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Brown Diver account Metro | Deal Sus Inc in Dim 7, 1973. Discolor | & soils were obse |
| OI & K. DAMAGE TO FAUNA | DSDI Sys, Inc. on Dim 7, 1973. Discook | . D ALLEGED |
| O4 NAMEATINE DESCRIPTION include nameral of species) | ence was reported or observed a poten | tial exists |
| for france to become clan | aged by consuming contaminated flo | 20 02 |
| direct contact to TCL compo | ounds und/or TAL analytes. | |
| 01 & L CONTAMNATION OF FOOD CHAIN | ounds and/or TAL analytes. 02 0 OBSERVED (DATE:) POTENTIAL | . D ALLEGED |
| Data to Devists for food | contamination through consumption | 1 of |
| contaminated flora or fa | contamination through consumption | |
| | | |
| 01 M. UNSTABLE CONTAINMENT OF WASTES | 02 OBSERVEN (DATE: JULY 21 - 22 1971 POTENTIAL | . D ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: 17 | 054 04 NAME ATTIVE DESCRIPTION | |
| TEPA observed yellow pain | t-lile liquid, paper pulp, scum and booter on site. Leachate on site was | nown bottle |
| flow off-site into a draine | age ditch and eventually 40 The Missis | sipoliziver. |
| 01 M N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION | 02 OBSERVED (DATE:) R POTENTIAL | |
| Leachate flowing off-site | , into nearby waterways. | |
| 01 D O. CONTAMINATION OF SEWERS, STORM DRAI 04 NARRATIVE DESCRIPTION | INS, WWTPs 02 OBSERVED (DATE:) POTENTIAL | . D ALLEGED |
| | | |
| Nowe Documented or O | bserved. | |
| 01 P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION | 02FOBSERVED (DATE:) DEPOTENTIAL March 1973 - June 1980. | |
| Sile closed in 1973, but | CERCLA 103 & form filled WUS. EPA | by Anhouser- |
| Bush, Enc. on June 9, 1981, | moreates (MC Committee aber purp was | shipped to |
| OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIA | | |
| Inadequate fencing. | | |
| Inadequate fencing. Remoff of leachast to | Surface waters. | |
| | | |
| ML TOTAL POPULATION POTENTIALLY AFFECT | ED: 17,654 | |
| IV. COMMENTS | | |
| | | |
| | | 1 |
| NOWE | | |
| V. SOURCES OF INFORMATION (CON MODERN CONTINUES OF | e. g., page Med, sample analysis, reports; | |
| ELE/FIT files , Region | | |
| ELE / FIT SITE INSPECT | or, 1991 | |

| ⊕EPA | POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION PART 4-PERMIT AND DESCRIPTIVE INFORMATION L IDENTIFICATION O1 STATE 02 SITE NUMBER L DF10C 07204 | | | | | |
|--|--|--|--|----------------------------|-------------|--|
| II. PERMIT INFORMATION | | | | | | |
| 01-TYPE OF PERMIT ISSUED | 02 PERMIT NUMBER | 03 DATE | ISSUED | 04 EXPIRATION DATE | 05 COMMENTS | |
| • | | - | | | | |
| □ A. NPOES □ B. UIC | | + | | | | |
| C. AR | | | | | | |
| D. RCRA | | + | | | | |
| DE. ACRA DITERMISTATUS | | + | | | | |
| F. SPCC FLAN | | | | <u> </u> | | |
| G. STATE Speciff | NENDUN | 197 | 0 | 6-7-73 | Pervist & | uss hevoked by EPCI |
| □ H. LOCAL Stanoofy) | UN CROSS | 117. | <u> </u> | 6 1 5 | W- 1973 | <u>' </u> |
| □ I. OTHER (Specify) | | | | | | |
| DJ. NONE | | | | | | <u> </u> |
| III. SITE DESCRIPTION | 1 | | | <u> </u> | | |
| 01 STORAGE/DISPOSAL (Check of that apply) | 02 AMOUNT 03 UNIT C | F MEASURE | 04 TF | REATMENT (Check all pier a | poly1 | 05 OTHER |
| ☐ A. SURFACE IMPOUNDMENT | | | ۱., | AICENEDATION | | |
| D B. PILES | | | A. INCENERATION B. UNDERGROUND INJECTION | | | ☐ A. BUILDINGS ON SITE |
| C. DRUMS, ABOVE GROUND | | | C. CHEMICAL/PHYSICAL | | | 1 |
| D. TANK, ABOVE GROUND | | | D. BIOLOGICAL | | | NONE |
| ☐ E. TANK, BELOW GROUND _ | | | ☐ E. WASTE OIL PROCESSING | | | 06 AREA OF SITE |
| | rupon nyk | MONN | | SOLVENT RECOVER | - | 218 |
| ☐ G. LANDFARM | | | | OTHER RECYCLING | | Morey |
| DIOTHER | | | ₩ H. | OTHER /VF | | |
| (Specify) | | | <u> </u> | | | <u> </u> |
| The Site was I | used as a s abel pulp w | olid L enc o | ous. | k disposa posed of | l facili | ty, however, the site. |
| IV. CONTAINMENT | | | | | | <u>-</u> |
| 01 CONTARMENT OF WASTES (Check ann) | C) 8. MODERATE | ■ C. • | VADEQL | JATE, POOR | O D. DESECU | RE, UNSOUND, DANGEROUS |
| 02 DESCRIPTION OF DRUMS, DIKING, LINERS, 1 | BARRIERS, ETC. | | | | | |
| No liner, no b | sanviers to | , su | veū | t surfu | ce wat | ter run-off |
| and off-sole lead | | | | | | |
| V. ACCESSIBILITY | | | | | | |
| 01 WASTE EASILY ACCESSIBLE: YES | | | | | | |
| Site is not funced | and access | able t | T | me public | . ~ | |

ELE/FIT SITE INCPECTION, 1991

VL SOURCES OF INFORMATION (CO+ specific references, # g state fine, sample analyses, reserts)

FLE FIT Files, Region I

| ≎EP A |
|----------------------------|
| IL DRINKING WA |
| 01 TYPE OF DRIMING |
| COMMUNETY NON-COMMUNETY |

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION 01 STATE 02 SITE NUMBER

| VLIA | PART 5-WATER | L DEMOGRAPHI | C, AND ENVIRO | NMENTAL DATA | IL 10980601784 |
|---|----------------------------------|---------------------------------------|--|-----------------------------------|-----------------------------|
| IL DRINKING WATER SUPPLY | | <u></u> | ······································ | | |
| 01 TYPE OF OFWINDING SUPPLY | | 02 STATUS | | | 03 DISTANCE TO SITE |
| SURFACE | WELL | ENDANGERE | D AFFECTED | MONITORED | İ 🗼 . |
| COMMUNETY A. III | 8. 🗆 | A.D | 8. □ | C. . | A 24 (mi) |
| NON-COMMUNITY C. [| D. = | UNKNOWO | €. 🖸 | F. | 8. ~ 1/4 (mb) |
| ML GROUNDWATER | | · · · · · · · · · · · · · · · · · · · | | | |
| 01 GROUNDWATER USE IN VICINITY (Check | ene) | | | | |
| · B A ONLY SOURCE FOR DRINKING | B. DRINKING | | II C COMMERC | CIAL INDUSTRIAL IRRIGAT | TION D. NOT USED, UNUSEABLE |
| • | (Other sources evalu | OUSTRIAL, IRRIGATIO | (Limited esha | r sources available) | |
| | • | | | | |
| 02 POPULATION SERVED BY GROUND WA | 375 | ., | 02 DISTANCE TO ME | AREST DRINKING WATER I | MELL ~ 1/4 6mg |
| | | | | | |
| 04 DEPTH TO GROUNDWATER | DE DIRECTION OF GAC | DUNDWATER FLOW | 06 DEPTH TO AQUIFE OF CONCERN | R 07 POTENTIAL YIEL OF AQUIFER | D 06 SOLE SOURCE AQUIFER |
| (<u>)</u> | | east west | ! <u>! </u> | (10) unknow | Yes ■NO |
| 09 DESCRIPTION OF WELLS moleting seesge | depth, and location relative to | provision and buildings | <u> </u> | | |
| | | ••• | | | |
| | | | | | |
| | | | | • | |
| See Section 5- 10 RECHOOL MEAN Recho | 2 in Na | rative | cm d Ap | perdix E. | |
| 10 RECHURGE MEA Recho | nged via r | ain | 11 DISCHARGE AREA | Dischan | a. to low lyne |
| TYES COMMENTS WELLE | Percolati | 04 | TYES COMM | ENTS west and | ge to low lying on eastern |
| □ NO | • | | 0 NO 1061 | f of The sit | ₹. |
| IV. SURFACE WATER | | | | | |
| 01 SUPFACE WATER USE (Check one) | | | | | |
| | | | | | |
| B A RESERVOIR RECREATION DRINKING WATERSOURCE | | N, ECONOMICALLY IT RESOURCES | C. COMME | RCIAL, INDUSTRIAL | D. NOT CURRENTLY USED |
| | | | | | ··· |
| 02 AFFECTED POTENTIALLY AFFECTED BY | DOIES OF WATER | | | | |
| NAME: | | | | AFFECTED | DISTANCE TO SITE |
| NA ' ' ' - ' | | | | | 7 - |
| 100 50 152 1 PAI | | | ··· | | |
| Schoenhomer (| Lree K | | | 0 | 150 feet m |
| UNNAMED O RIVE | | | | 0 | 114 MILE |
| V. DEMOGRAPHIC AND PROPERT | Y INFORMATION | | | | |
| 01 TOTAL POPULATION WITHIN | | | | 02 DISTANCE TO NEARE | ST POPULATION |
| | O (2) MILES OF SITE | THREE (3 |) MILES OF SITE | Ι, | |
| A 6505 | 77.624 | | 1,577 | | [4(mi) |
| NO OF PERSONS | NO. OF PERSONS | | O. OF PERSONS | <u> </u> | |
| OS NUMBER OF BUILDINGS WITHIN TWO (2) | | | 04 DISTANCE TO NE | VREST OFF-SITE BUILDING | <u> </u> |
| | 6108 | | | 300- | - Ind |
| OS POPULATION WITHIN VICINITY OF SITE A | Provide narrative description of | return of population within a | icinty of site, e.g., notel, vil | nce, densely passisted when an | . |
| The site is located north of the city of East St. Louis. Railraad | | | | | |
| · tracks separate the sime from residential areas. These Areas South of The | | | | | |
| Site are more da | | | | | |
| north of The site | spansely | populat | red. | - | |

EPA FORM 2070-13 (7-81)

| | _ | | |
|-----|---|-----------------------|---|
| 35. | - | $oldsymbol{ u}\Delta$ | |
| | _ | | L |

POTENTIAL HAZARDOUS WASTE SITE

| | L IDENTIFICATION | | | | | | |
|---|------------------|----------------|--|--|--|--|--|
| 1 | 01 STATE | 02 SITE NUMBER | | | | | |
| | | D18060120 | | | | | |

| \$EPA | | CTION REPORT HC, AND ENVIRONMENTAL DATA | TL D180657204 |
|--------------------------------------|---|---|---|
| VI. ENVIRONMENTAL INFORMA | | | |
| OT PERMEABILITY OF UNSATURATED Z | | | |
| □ A. 10-¢ ~ 10- | -8 cm/sec | E C. 10 ⁻⁴ - 10 ⁻³ cm/sec ☐ D. GREATE | R THAN 10 ⁻³ cm/sec |
| 02 PERMEABILITY OF BEDROCK (Check | anej | | |
| A. IMPERIA Rage than 1 | MEABLE B. RELATIVELY IMPERMEAB 10 ⁻⁶ cm/sec) [10 ⁻⁴ ~ 10 ⁻⁶ cm/sec) | BLE C. RELATIVELY PERMEABLE [] | D. VERY PERMEABLE (Greater stan 10 ⁻² cm/sec) |
| 03 DEPTH TO BEDROCK | 04 DEPTH OF CONTAMINATED SOIL ZONE | 05 SOIL pH | |
| ~115 m | unicroun m | Imknow | |
| 06 NET PRECIPITATION | 07 ONE YEAR 24 HOUR RAINFALL | 06 SLOPE SITE SLOPE DIRECTION OF SITE | SLOPE TERRAIN AVERAGE SLOPE |
| 8(in) | (m) | -<3 * East | |
| SITE IS IN 100 YEAR FLO | N/A I SITE IS ON BARR | NER ISLAND, COASTAL HIGH HAZARD ARE | A, RIVERINE FLOODWAY |
| 11 DISTANCE TO WETLANDS IS acre mann | <u> </u> | 12 DISTANCE TO CRITICAL HABITAT for endange | and special |
| ESTUARINE | OTHER | 2/4 | (mi) |
| A N/A (mi) | B. ON-SITE (ml) | ENDANGERED SPECIES:N | <u>A</u> |
| 13 LAND USE IN VICINITY | | | |
| DISTANCE TO: | RESIDENTIAL AREAS! NATIO | ONAL/STATE PARKS, AGE FE RESERVES PRIME AG L | RICULTURAL LANDS NNO AG LAND |
| 300 ft | . <u>8. 350</u> | ft_ma_ c. >1 | (mi) D. > } (mi) |
| 14 DESCRIPTION OF SITE IN RELATION 1 | TO CLIPTON WITHIN TORONOM STAY | | |
| | | | |
| See Sec. 3 in | Narrative and | l Appendix A. | |
| VII. SOURCES OF INFORMATIO | | , reports) | |
| FEF FIT FILE | S, REGIONE, | | |
| E'E / FIT SIT | F Inspection 199 | io | į |

| | , | |
|---|---|-----|
| 3 | | -74 |
| | | |

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION

LEDENTIFICATION
OI STATE 02 STE NUMBER
TL D 12067024

| | | P# | ART 6-SAMPLE AND FIELD INFORMATION | 10001004 |
|-------------------|-------------|---------------------------------|--|--|
| IL SAMPLES TAKE | N | | | |
| . SAMPLE TYPE | | 01 NUMBER OF SAMPLES TAKEN | 02 SAMPLES SENT TO . | OS ESTIMATED DATE RESULTS AVAILABLE |
| GROUNDWATER | _ | ii mw | TCL - PEI Associates, Cincinnati, Onio TAL - Data Chem, Inc Salt Lake CityUT | available now |
| SURFACE WIATER | | | | |
| WASTE | | | · | • |
| AIR | | | | |
| RUNOFF | | | · | |
| SPLL | | | | |
| SOL | | 8 | TCL - PET Associates, Cincinnati OHIO TAL - Data Chem, Inc., Sall Lake City, UT | avoctable now |
| VEGETATION | | | · | |
| OTHER GROUP | duder | & Leachate Wests | TCL - PEI Associates, Cincinnati, Onio TAL - Data Chem, Inc, Salt Lake City, UT | available |
| M. FIELD MEASURE | | | | · · · · · · · · · · · · · · · · · · · |
| 01 TYPE | | ON COMMENTE | No. 1 | L mr C |
| DVA 12 | 9 | Methane | above background when No devi | anons hing zone |
| | | | 3 | 1.0-1. |
| • . | • | | ations from background | |
| | | | ngs above background | |
| Monitox | | No device | ctions from background | |
| IV. PHOTOGRAPHS | AND MAPS | | | |
| 01 TYPE & GROUND | B AERIAL | | 02 M CUSTODY OF FCOLOGY & ENVIRONMENT FINE C | hicago-IL |
| 03 MAPS | 04 LOCATION | OF MAPS | ^ ~ | |
| □ NO | <u> </u> | DIOGY & END | rownent Chicago IL | |
| V. OTHER FIELD DA | TA COLLEC | TED Provide Assessed Asses | | • |
| Physica | l desi | cripition | of soils samples | ١ |
|) | | • | , temperature of water samples. | |
| • | Mode | of well a | and depth to groundwater of mo | nitoring |
| D-21 | Tel. | 10. Woll o | in report. Well samp | oles |
| (JETEN) | J 1 -21 | | , . | |
| | | | | |
| | | | | |
| VI. SOURCES OF IN | I-ORMATIO | N (Cite specific references, e. | ;, state flue, compto analysis, reports; | |
| ELE SSI | = Log! | book | | |
| ELE/FI | T File | rs Region | T | |

Labratory Analytical Data.
EPAFORM 2070-13 (7-81)

| | | | | | 400000 | | 704 |
|--|---------------|----------|------------------------------|--|-------------|--------------------|-------------|
| | | POT | ENTIAL HAZA | RDOUS WASTE SITE | I. IDENTIF | | |
| SEPA " | | | SITE INSPEC | | | ATE 02 SITE NUMBER | |
| VLIA | | | | R INFORMATION | IC | DG | 80607024 |
| | | | TANT TO WHIL | araa onaarior | | | |
| IL CURRENT OWNER(S) | _ | | | PARENT COMPANY IT APPLICATES | | | |
| DI NAME | | 1000 | +B NUMBER | OB NAME | | 1000 | +B NLMBER |
| | 1 | 720 | 4.0 MOMBEÜ | 1 | | 1000 | TONUMBER |
| Consolidated Rail (CONT) | ~いし) | 1 | | N/A | | | |
| O3 STREET ADDRESS (P.O. Box, NO P. oc.) | | 1 | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, NFO F, etc.) | | | 11 SIC CODE |
| 10. | | - 1 | | 1 | | | |
| Six Pewn Center Mon Philadelphia | | | | <u> </u> | | | |
| OS COTY | OS STATE | 07 21 | P COOE | 12017 | 13 STATE | 14 Z | OP CODE |
| Dul-dalshi | 154 | 1 1 | 9103 | | | | |
| Philadelphia | 15 | 1-4 | 9/03 | | | } | |
| OT NAME | | 020 | +B NUMBER | OB NAME | | 09 0 | + B NUMBER |
| | | 1 | | 1 | | | |
| O3 STREET ADDRESS (P.O. Box, NFD 4, occ.) | | | 04 SIC CODE | 10 STREET ADDRESS (P.O. Bar, NFO F, CE) | | ٠ | 11SIC CODE |
| STREET ADDRESS (F.U. BE., 1404, BE.) | | ſ | ~ 30 0000 | 1001162170012007001321700123 | | | |
| 1 | | ł | | 1 | | | |
| OS CITY | OS STATE | 107 Z | P CODE | 12 017 | 13 STATE | 114Z | OP CODE |
| · · | 1 | | | | | 1 | |
| | <u> </u> | | | | L_ | <u>L</u> | |
| O1 NAME | | 02 D | +B NUMBER | OS NAME | | 09 0 | +B NUMBER |
| Į. | | [| | L | | 1 | |
| | | | | L | | <u> </u> | |
| 03 STREET ADDRESS (P.O. Box, NFD F. odc.) | | | 04 SC CODE | 10 STREET ADDRESS (P.O. Box, AFO 4, atc.) | - |] | 11SIC CODE |
| ł | | I | | 1 | | | |
| | | ليب | | | | | |
| os atv | OS STATE | 107 Z | P COOE | 12017 | 13 STATE | 14 Z | P COOE |
| | | 1 | | 1 | 4 | l | |
| O1 NAME | | 02.0 | +B NUMBER | OS NAME | | 1000 | + B NUMBER |
| POT ROBE | | 1020 | T B NOMECT | OO HOME | | رمورا | T B INUMBER |
| • | | 1 | | 1 | | 1 | |
| 03 STREET ADDRESS (P.O. Box, AFO 4, etc.) | | 1 | 04 SC CODE | 10 STREET ADDRESS # 0. Box. NFD #, onc.) | | ┺┪ | 11SIC COOE |
| | | - 1 | | | | | |
| l | | - 1 | | i | | | |
| 05 CITY | OG STATE | 07 Z | P COOE | 12 CITY | 13 STATE | 142 | OP CODE |
| | | | | ł | | 1 | |
| | 1 | <u> </u> | | | | 1 | |
| DI MAME OI MAME I CAILEDAD PENN CENTRAL OSTREET ADDRESS (P. d. aug. 1904. de.) | | | | IV. REALTY OWNER(S) of applicable for most | nced firef | | |
| 01995 | | In2 D | +B NUMBER | OT NAME | | 102 D | +8 NUMBER |
| TO TO TO THE PARTY | | 1 | | N/A | l | [| |
| PENN LENTRAL | | i | | N/A | | l | |
| 03 STREET ADDRESS (P.O. Box. AFD F. otc.) | | -1 | 04 SC COOE | 03 STREET ADDRESS (P.O. Box, AFD P. ox.) | | | 04 SIC CODE |
| UNKNOWN | | _ J | • | <u> </u> | | - 1 | |
| | — | | | | | لب | |
| 05 CITY | 106 STATE | 07 Z | P C00€ | os city | 06 STATE | 07 Z | OP CODE |
| • | 1. 1 | | | | - 1 | 1 | |
| O1 NAME | <u> </u> | 200 | BILLABER | O1 NAME | | 02.0 | +B NUMBER |
| lo | | W 5 | r & HUMBUCA | 0.100 | l | 1026 | T B RUMEDON |
| | | l | | | 1 | 1 | |
| CO STREET ADDRESS (P.O. But, AFD 4, occ.) | | | 04 SC CODE | 03 STREET ADDRESS (P.O. Box, AFD F, car.) | | | 04 SIC CODE |
| | | 1 | | ł | | - 1 | |
| <u> </u> | | لي | | laran | 162222 | لي | |
| 06 CITY | 06 STATE | 107 ZH | - COOL | 06 City | 06 STATE | 1 ^{07 Z} | ₽ C00€ |
| ł | į į | l | | [| | Į | |
| O1 NAME | <u>-</u> | 02.0 | + B NUMBER | OI NAME | | 02.0 | + B NUMBER |
| VI Val | | المرين | * # MUMBER | ··· | | المتعال | TO NUMBER |
| i | | • | | | ŧ | 1 | |
| 03 STREET ADDRESS (P.O. Box, AFD P. occ.) | | 1 | 04 SC CODE | 03 STREET ADDRESS (P.O. Box, NFO F, etc.) | | 1 | 04 SIC CODE |
| 1 | | 1 | | 1 | | Ì | |
| | | | | | | | |
| OSCITY | 06STATE | 07 2 | DP COO€ | 05 CITY | 06 STATE | 07 Z | P CODE |
| 1 |] | 1 | |] . | 1 | 1 | |
| <u> </u> | لـــــــــا | <u> </u> | | l | _1 | L | |
| V. SOURCES OF INFORMATION (CH aproxi | c references. | e.g., et | ste Tal., pampie analysis. N | perty. | - | _ | |
| | | | | | | | |
| FIE SSI LOGBOOK FIE FIT FILES Reg. | | | | | | | |
| 1 , - 3 Jook | | | | | | | |
| | | | | | | | i |
| ELEFIT FILES DA | ترمدة | L | | | | | 1 |
| | | | | | | | j |
| l . <u>'</u> | | | | | | | |

| \$EPA · | SITE INSP | | SITE INSPEC | RDOUS WASTE SITE | LIDENTIFICATION 01 STATE 02 SITE NUMBER TL D980607004 | |
|------------------------------------|------------------------|-----------------|---------------------------------|---|---|---------------------------------------|
| II. CURRENT OPERATO | 20. | | | OPERATOR'S PARENT COMPANY | | |
| OI NAME | ALL LLONGS SELLONGS NO | | 02 O+B MANBER | 10 NAME | | 11 D+8 NUMBER |
| NA | | | | N/A | | |
| 03 STREET ADDRESS P.O. & | os. RFD+, etc.) | | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, AFD 4, etc.) | | 13 SIC CODE |
| 06 CITY | | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER | | | | | - - |
| M. PREVIOUS OPERAT | OR(S) (a) pour mont | rat provide and | of different from owners | PREVIOUS OPERATORS' PARENT O | OMPANIES # | mofcethist |
| 01 NAME | | | 02 D+B NUMBER | 10 NAME | | 11 D+B NUMBER |
| METRO DU POS | AL SYSTEMS | INC | | NIA | | |
| | | | 1 | 12 STREET ADDRESS (P.O. Box, APD P. etc.) | | 13 SIC CODE |
| 207 Belleville | | | | 14 CITY | 15 STATE | 16 ZIP CODE |
| Belleville OBYEARS OF OPERATION | 09 NAME OF OWNERS | URING THE | 62220 PERIOD | | | |
| 1970-1973 | PENN (EV | MASTY | 51 4 51 | ĺ | | |
| 01 NAME | | | 02 D+B NUMBER | 10 NAME | | 11 D+B NUMBER |
| 03 STREET ADDRESS P.O. So. | s, RFD+, etc.) | | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, AFD P. etc.) | 1 | 13 SIC CODE |
| 05 City | | 06 STATE | 07 ZIP COOE | 14 CITY | 15 STATE | 16 ZIP CODE |
| OS YEARS OF OPERATION | 00 NAME OF OWNER | DURING THE | S PERIOD | | | · · · · · · · · · · · · · · · · · · · |
| 01 NAME | <u> </u> | | 02 D+B NUMBER | 10 NAME | | 11 D+8 NUMBER |
| 03 STREET ADDRESS P.O. 600 | r, RFD4, etc.) | | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, AFD 4, etc.) | 1 | 13 SIC CODE |
| | | | 1 | | | |
| 05 CITY | | 06 STATE | 07 ZIP COO€ | 14 CITY | 16 STATE | 16 ZIP CODE |
| OR YEARS OF OPERATION | 09 NAME OF OWNER | DURING THE | PERIOD | | | |
| IV. SOURCES OF INFO | RMATION (Cite specific | references, e | g., etale like, senale analysis | , reported | | |
| FLE/FIT | FILES, | Regi | ONI | | | |
| EFE FIT | | | | | | |
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| ≎EPA | POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION | | | L DENTIFICATION 01 STATE 02 SITE NUMBER LL D970607004 | |
|---|--|-----------------------------|--|--|---------------------------------------|
| IL ON-SITE GENERATOR | | <u> </u> | | | · · · · · · · · · · · · · · · · · · · |
| OI NAME | | 02 D+B NUMBER | | ······································ | • |
| NA | | | | | |
| 03 STREET ADDRESS (P.O. Box, NFD P, osc.) | | 04 SIC CODE | | | |
| os atry | 06 STATE | 07 ZIP CODE | • | | |
| M. OFF-SITE GENERATOR(S) | | | | · | |
| OI MANE | | Q2 D+B NUMBER | O! NAME | | 02 D+B NUMBER |
| Anneuser-Busch | | NA | NIA | | |
| 721 Pestalozzi | | 04 SIC CODE NA | 03 STREET ADDRESS (P.O Box, NFD P, SEC.) | | 04 SIC CODE |
| St Louis | 00 STATE | 0721100E | 05 CITY | 06 STATE | 07 ZIP CODE |
| OI NAME | 1170 | 02 D+B NUMBER | 01 NAME | ,l | 02 D+B NUMBER |
| ONKNOWN | | | NA | | |
| 03 STREET ADDRESS (P.O. Box, AFO F, etc.) | | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, AFD P, osc.) | | 04 SIC COOE |
| 06 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| IV. TRANSPORTER(S) | | | | | |
| 01 NAME | | 02 D+B NUMBER | 01 NAME | | 02 D+B NUMBER |
| unknown | | | N/A | | |
| 03 STREET ADDRESS (P.O. Box, AFD F, etc.) | | 04 SIC CODE | .03 STREET ADDRESS (P.O. Box, MPD P. edc.) | | 04 SIC CODE |
| osany | OS STATE | 07 ZP CODE | 06 CITY | 06 STATE | 07 ZIP COOE |
| OI NAME NA | | 02 D+B NUMBER | 01 NAME NA | | 02 D+B NUMBER |
| 03 STREET ADDRESS (P.O. But, NºO F, etc.) | | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, MRD P, old.) | | 04 SIC CODE |
| os ary | 06 STATE | 07 ZIP COOE | 05 CITY | 08 STATE | 07 ZIP COOE |
| V. SOURCES OF INFORMATION (Cite appeals) | adversors o | g., alate files, sample and | hot, reported | | |
| ELE FITFICES T | REG | IONI | | | |
| EFE SITE INSPE | CT/01 | V , 1991 | , | | |
| , , , , | - | , ., | | | |
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| | | | | | |
| EPA FORM 2070-13 (7-81) | | <u> </u> | | | |

| 1 | POTENTIAL HAZARDOUS WASTE SITE | | L IDENTIFICATION |
|---|---|-------------|--|
| SEPA | SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES | | OI STATE OF SITE MARSER TL DGROGOTO34 |
| IL PAST RESPONSE ACTIVITIES | | | |
| 01 DA WATER SUPPLY CLOSED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| NIA | • | • | |
| 01 D 8. TEMPORARY WATER SUPPLY PRO 04 DESCRIPTION | OVIDED · 02 DATE | 03 AGENCY | |
| NIA | | | |
| 01 C. PERMANENT WATER SUPPLY PRO 04 DESCRIPTION | VIDED 02 DATE | 03 AGENCY | |
| N/A | | , | . • |
| 01 [] D. SPILLED MATERIAL REMOVED | O2 DATE | 03 AGENCY | |
| 04 DESCRIPTION N/A | | | |
| 01 D.E. CONTAMINATED SOIL REMOVED | 02 DATE | 03 AGENCY | |
| 04 DESCRIPTION V/A | | | |
| 01 D.F. WASTE REPACKAGED | 02 DATE | 03 AGENCY | |
| 04 DESCRIPTION N / A | | | |
| 01 D.G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| N/A | | | |
| 01 D H. ON SITE BURIAL 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| W/A | | | |
| 01 D L IN SITU CHEMICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| N/A | · | . <u></u> _ | |
| 01 [] J. BI SITU BIOLOGICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| N/A | | | |
| 01 () K. BI SITU PHYSICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| W/A | | | |
| 01 CI L BICAPSULATION 04 DESCRIPTION | O2 DATE | 03 AGENCY | |
| N/A | | | |
| 01 () M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| N/A | | | |
| 01 D N. CUTOFF WALLS | 02 DATE | 03 AGENCY | |
| 04 DESCRIPTION N/A | | | |
| 01 D O EMERGENCY DIKING/SURFACE WA | TER DIVERSION 02 DATE | 03 AGENCY | |
| 04 DESCRIPTION N/A | | | |
| 01 [] P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| N/A | • | | |
| 01 [] Q. SUBSURFACE CUTOFF WALL | O2 DATE | 03 AGENCY | |
| 04 DESCRIPTION //A | | | |

| | POTENTIAL HAZARDOUS WASTE SITE | | L IDENTIFICATION |
|--|---|------------|--------------------|
| ⊕EPA | SITE INSPECTION REPORT PART 10-PAST RESPONSE ACTIVITIES | ĺ | TL D980C07804 |
| II PAST RESPONSE ACTIVITIES (Comment) | | | |
| 01 G. BARRIER WALLS CONSTRUCTED | 02 DATE | 03 AGENCY | |
| 04 DESCRIPTION N/A | | | • |
| 01 [] S. CAPPING/COVERING | 02 DATE | 03 AGENCY | |
| 04 DESCRIPTION N/A | | | · |
| 01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION | 02 DATE | 03 AGENCY. | |
| N/A | | · | ·. |
| 01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION | 02 DATE | 03 AGENCY. | |
| N/A | | | |
| 01 U. BOTTOM SEALED 04 DESCRIPTION . N/A 01 U. GAS CONTROL 04 DESCRIPTION N/A | 02 DATE | | |
| 01 D W. GAS CONTROL | 02 DATE | 03 AGENCY | |
| 04 DESCRIPTION N/A | | | |
| 01 B X. FIRE CONTROL | 02 DATE 2 114 77 8 | 03 AGENCY | Consail |
| Fires beneath swiface of Soils were Then recovered. | Site. Soils were excavated an Denformed by Connail Engine | 2 fires | were extinguished. |
| 01 DY. LEACHATE TREATMENT | OZ DATE | 03 AGENCY | |
| 04 DESCRIPTION NA | <u> </u> | | ····· |
| 01 [] Z. AREA EVACUATED 04 DESCRIPTION | 02 DATE | 03 AGENCY. | |
| NA | 02 DATE | | |
| 01 []-1: ACCESS TO SITE RESTRICTED 04 DESCRIPTION | OS DATE | 03 AGENCY | |
| NA | 02 DATE | | |
| 01 [] 2. POPULATION RELOCATED 04 DESCRIPTION | 02 DATE | 03 AGENCY_ | |
| MA | | | |
| 01 123. OTHER REMEDIAL ACTIVITIES | 02 DATE | 03 AGENCY. | |
| 04 DESCRIPTION MA | | | |
| 1 | • | | |
| 1 | | | |
| | | | |
| 1 | | | |
| 1 | | | |
| l | | | |
| | | | |
| IL SOURCES OF INFORMATION (Cas apposite refer | | | |
| E: E/FIT Files Place | gion I | | |
| E'E/FITTIES Red FOE Site Inspection | 1 1991 | | |
| | | | |



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER

1 1980607084

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION # YES E NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Order by Illinois Pollution Control Board (PCB 73-59)
on June 8, 1973, Christian L. Moffett, Clerk, IPCB.

enforced The following actions:

- 1 Revolled Metro Disposal System Incis permit to operate a land fill at The site.
- @ Required final (over 490 days of The order
- 3 Required Metro Dispocal Systems Inc to cease and desist from violating rules and regs regarding refuse disposal.
- @ A\$2,500 penality to The State of Illinois.

III. SOURCES OF INFORMATION (City specific references, e.g., place stres, particle analysis, records)

E! E / FIT files Region I.

ELE Site Inspection 1991

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INC PAGE JOF 22

U.S. EPA ID: 12) 98060720/TDD: FOS-8912-090 PAN: FILOY175B

DATE: > 5 8 /91

TIME: > 1230

DIRECTION OF PHOTOGRAPH:

veather conditions: > Pleasant

> Mid 7c's sunny

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):



DESCRIPTION: > Close-up view of schiant sample SI collected from
> the west edge of the berm on the sites east side

DATE: > 5/8/91

TIME: > 12:30

DIRECTION OF PHOTOGRAPH: > North

VEATHER
CONDITIONS: .
> Sunny, mid 7c's

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):
> 51



DESCRIPTION: > Perspective vum of sectional semple SI,

SITE NAME: Metro DSPL SYST INC

PAGE TOF 22

U.S. EPA ID: 1 LD 98060720/TDD: FOS-8912-090 PAN: FILOYITSB

DATE: > 5/8/91

TIHE: > 12:45

DIRECTION OF PHOTOGRAPH:
> West

VEATHER
CONDITIONS:
> Sunny, mill

>2700

PHOTOGRAPHED BY: > 13elmonte

SAMPLE ID
(if applicable):
> 57



> from the west edge of the berm on the east side of the site

DATE: >5/8/91

TIME: > 12:45

DIRECTION OF PHOTOGRAPH: > \(\subseteq 2\subseteq^+ \)

VEATHER
CONDITIONS:
> Sunky, mild

> 70s

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable): > 57



DESCRIPTION: > Perspective vun of Sediment Sample SZ.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INC PAGE 3 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY,75B

DATE: > 5 7 /91

TIME: > = -

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:
> Sunny mild
> ~70°

DUOSOCO A DUES DA

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):
> \(\le 3 \)

THE RESO

DESCRIPTION: > Closeup ot soil sample S3 collected from an

> sign of bore soil on top of the land fill.

DATE: > 5/8/91

TIME: > 3 40

DIRECTION OF PHOTOGRAPH:

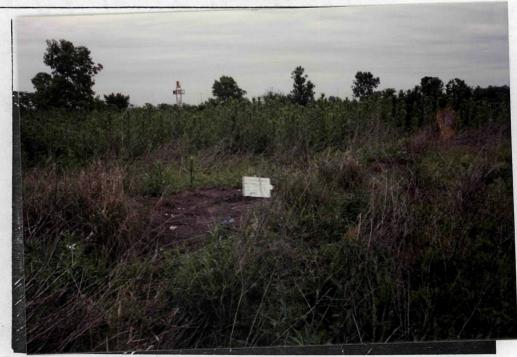
WEATHER CONDITIONS:

> Eunny mild

> ~7c°

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): > 53



DESCRIPTION: > Perspective view of soil sample 53

>

SITE NAME: METO DSPL SYST INIC PAGE 4 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY,75B

DATE: > = 8/91

TIME: > 13 50

DIRECTION OF PECTOGRAPE: > Viert

VEATEER : SHOITICHOS >=-nny mild

> -- 700

PECTOGRAPEED BY: > seincrite

SAMPLE ID (if applicable):



DESCRIPTION: > Close-up view of soil sample 54 collected

> iron red stained soil on the eastern edge of the

DATE: > 5/8/91

TIME: > 350

DIFECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: > sunny mill

PECTOGRAPHED BY: > Stimente

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective vino of soil sample S4

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INIC PAGE 5 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILC417513

DATE: > 5/8/91

TIHE: > 13:50

DIRECTION OF PHOTOGRAPH: > East

WEATEER CONDITIONS: > sunny, mild

> 2700

PHOTOGRAPHED BY: > Be merte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective ulw of soil sample Sy

> snowing wettend west of sample location

DATE: >5/8/91

TIME: > 14:12

DIRECTION OF PHOTOGRAPH: > North

WEATEER CONDITIONS: > sunny, mild

> ~700

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Close-up view of Soil sample S5 collected

from the western edge of the landfill in the

PIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INC PAGE - OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY17513

DATE: > 5/8/91

TIME: > 14:12

DIRECTION OF PHOTOGRAPH: > North

VEATEER CONDITIONS: > Sunny, mild

> -270

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective view of soil sample SS.

DATE: >5/8/91

TIME: > 14:12

DIRECTION OF PHOTOGRAPH: > North east

VEATHER CONDITIONS: > Sunny, mill

PHOTOGRAPHED BY: > 13elmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective view of wetlands Northeast > d 55

recycled paper

SITE NAME: Metro DSPL SYST INC PAGE 7 OF 22

U.S. EPA ID: 14) 98060720/TDO: FOS-8912-090 PAN: FILOY,75R

DATE: >5/8/91

TIME: > 13:04

DIRECTION OF PHOTOGRAPH: > North

VEATHER CONDITIONS: > sunny, mild >~700

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Checony view of Soil Sample S4, > Collected at the wetland/landfull interface

DATE: >5/8/91

TIME: > 13:0+

DIRECTION OF PHOTOGRAPH: > Northwest

VEATHER CONDITIONS: > Sunny, Mild ~700

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): 56



> 56.

SITE NAME: Metro DSPL SYST INC PAGE 8 OF 22

U.S. EPA ID: 14) 98060720/TDO: FOS-8912-090 PAM: FILOY,75B

DATE: > 5/8/91

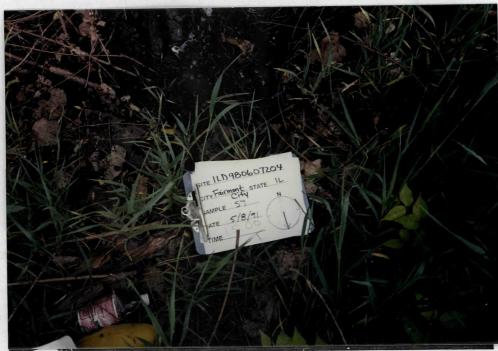
TIHE: > 15:15

DIRECTION OF PHOTOGRAPH: > South

VEATHER CONDITIONS: > Myle, ~ 700

PHOTOGRAPHED BY: > Bemonte

SAMPLE ID (if applicable):



DESCRIPTION: > Close-up vino of sediment Sample 57, > Collected between the randfill and Highway 40.

DATE: >5/8/91

TIME: > 15:15

DIRECTION OF PHOTOGRAPH: > South

VEATHER CONDITIONS: > Mil ~ 700

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective view of Sediment Sample

> S7.

SITE NAME: Metro DSPL SYST INIC PAGE 9 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILCY,75B

DATE: > 5/8/91

TIHE: > \ 8:15

DIRECTION OF PHOTOGRAPH: > West

VEATHER CONDITIONS: > Mild ~ 70"

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Close-up view of 58, the pointful > bechanged, collected from a wooded area east of

DATE: > 5/8/91

TIME: > 19:15

DIRECTION OF PHOTOGRAPH: > West

VEATHER CONDITIONS: > Mild ~700

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective view of S8, the jotential

> beckground Sample.

SITE NAME: MET-0 DSPL SIST INIC PAGE 16 OF 22

U.S. EPA ID: 12, 98060720/TDO: FOS-8912-090 PAN: FILOY175B

DATE: > 5/8/4.

TIME: > 16 CC

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:
> Hill, ~ 70°

>

PHOTOGRAPHED BY:

SAMPLE ID

(if applicable):
>LWI / Dup



> LWI Collecte at -e Southwest corner of

the trans

DATE: >5/8/91

TIME: > 16:00

DIRECTION OF PHOTOGRAPH:
> Noth

VEATHER
CONDITIONS:
> Mild, ~70'

>

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): > _______



DESCRIPTION: > Cospertive view of leachate wey

> LWI

FIELD PETTOGRAFEY LOG SEEET

SITE NAME: Metro DSPL SYST INIC PAGE! OF 22

U.S. EPA ID: 14) 98060720/TDD: FC5-8912-090 PAN: FILOY,75B

DATE: > 5/8/91

TIHE: > 6:00

DIRECTION OF PHOTOGRAPH: > Noineast

WEATEER CONDITIONS: > M:16,270°

PHOTOGRAPHED BY: > B= monte

SAMPLE ID (if applicable): > LWI / Dur



DESCRIPTION: > Perspective vui = + Lenchate well, LWI. > Extreme vemp to ISS & How 70 in bringround.

DATE: > 5/8/91

TIME: >16:45

DIRECTION OF PHOTOGRAPH: > No.th

WEATEER CONDITIONS: > Mild, ~70°

PHOTOGRAPHED BY: > 13 = Imonte

SAMPLE ID (if applicable): > Luz/MSD



DESCRIPTION: > Close-up voi c' leachale well, LWZ, collected on the east side of

SITE NAME: Metro DSPL SYST INIC PAGE /2 OF 22

U.S. EPA ID: 140 980607204TDO: FOS-8912-090 PAN: FILCY175B

DATE: > 5/8/91

TIME: > 6:45

DIRECTION OF FEOTOGRAPH: > No.th

TEATHER CONDITIONS: > Mile, ~70'

FEOTOGRAPHED BY: > Bemonte

SAMPLE ID (if applicable): > LWZ/450

DESCRIPTION: > Perspective view of LWZ, located on the

> Southwest corner of the fill area.

DATE: > 5/8/91

TIME: > 16:45

DIRECTION OF PHOTOGRAPH: > South

VEATHER CONDITIONS: > Mill , ~70.

PHOTOGRAPHED BY: > Be monte

SAMPLE ID (if applicable): > LLUZ/MSD



Perspective view of leachate well DESCRIPTION: > Railroad tracks in bedeground. > (W2,

SITE NAME: Metro DSFL SYST INC PAGE 13 OF 22

U.S. EPA ID: 14) 980607204700: FOS-8912-090 PAN: FILO4175R

DATE: > 5/= 91

TIHE: > 17:30

DIRECTION OF PHOTOGRAPH: > worst

VEATHER CONDITIONS: > Over cas-

smild midter

PHOTOGRAPHED BY: > Belmont

SAMPLE ID (if applicable): > Mw1/Dup



DESCRIPTION: > Closery view of monitoring well sample,

> Mul. Mul was alletted on the berm in the

DATE: > 5/4/41

TIME: > 1.30

DIRECTION OF PHOTOGRAPH: > wes=

WEATHER CONDITIONS: > overest mill.

> mid-615

PHOTOGRAPHED BY: > Relimente

SAMPLE ID (if applicable): > MWI/Dus

DESCRIPTION: > PERSpective VIW of monitoring > MW3 is left of HWI.

SITE NAME: Metro DSPL SYST INC _ PAGE / OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY1753

DATE: > 5/9/91

TIME: > 10: 20

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:

> crevcast, mild

> mid-605

PHOTOGRAPHED BY:
> Belmonte

SAMPLE ID
(if applicable):
> Mwz/HSD

STE_LLN980607204
CITY THINTIPS, STATE_LL
SAMPLE MM3/INSD_N
DATE 5_9-9-11
TIME [0] 20

DESCRIPTION: > Close-up view of MWZ/MSD collected

Southwest of the landfill.

DATE: > 5/9/91

TIME: > 10-20

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:
> Overcent, mild

> mid-Lec's

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID
(if applicable):
>Mwz/MsD



DESCRIPTION: > Perspective view of Mw2/MSD. Pailroad

> track on the horizon.

FIELD PESTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INIC

PAGE 15 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY,75B

DATE: > 5/9/91

TIME: > 0: 20

DIRECTION OF PHOTOGRAPH:

> South west

VEATEER
CONDITIONS:
> CULLIZE + mild

> mid- letis

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):
> Muz HJD



DESCRIPTION: > Perspective view of MWZ/MSD. showing the > Southeast corner of the landfill.

DATE: > = /9/91

TIME: > 2:30

DIRECTION OF PHOTOGRAPH: > \times es-

VEATEER
CONDITIONS:
> OUTLIEST, MILE

> mid-lios

PHOTOGRAPHED BY:
> Belmonte

SAMPLE ID (if applicable): > Nw3



DESCRIPTION: > Closer-up 1: wo of Mw3 calleded in >- the southeast corner of the site.

SITE NAME: Metro DSPL SYST INC PAGE 16 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILO417513

DATE: > 5/9/4;

TIME: > 12:50

DIRECTION OF PHOTOGRAPH: > lier

VEATEER CONDITIONS: >= restant mild

> 1-1-1.00

PHOTOGRAPHED BY: > Belmont

SAMPLE ID (if applicable): > Hwi?



DESCRIPTION: > Perspecture view of MW3. MWI

> The right.

DATE: > 5/9/91

TIME: > 13:35

DIRECTION OF PEOTOGRAPH: > Koch

VEATEER CONDITIONS: somewest, mild

> mid-ledi

PEOTOGRAPHED BY: > belmonte

SAMPLE ID (if applicable): SWH /HW3



DESCRIPTION: > Perspective vine of MWI and MWZ showing > the Huy 203 bridge in the bedignound.

FIELD FEOTOGRAPHY LOG SHEET

SITE NAME: METO DSPL SYST INC PAGE 17 OF 22

U.S. EPA ID: 14) 98060720/TDO: FOS-8912-090 PAN: FILOY,75B

DATE: > 5/9/91

TIME: > 12:00

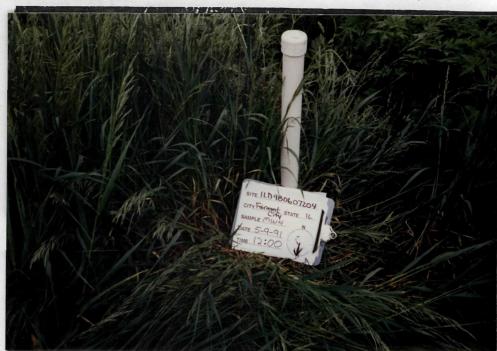
DIRECTION OF PHOTOGRAPH: > south

VEATHER CONDITIONS: > overest, mild

> mic-lecs

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable): > Mw+



DESCRIPTION: > Close-up vais of monitoring well sample New 4 celeted in the northeast corner of the site.

DATE: > 5/9/11

TIME: > 12:00

DIRECTION OF PHOTOGRAPH: > south

WEATHER CONDITIONS: > overcest, mild

> niic-Gor

PHOTOGRAPHED BY: > Belimont

SAMPLE ID (if applicable): > MWH

DESCRIPTION: > Perspective viv of HWH Showing



SITE NAME: METO DSPL SYST INC PAGE 18 OF 22

U.S. EPA ID: 14) 980607204TDO: FOS-8912-090 PAN: FILO417513

DATE: > 5/9/91

TIME: > 3:50

DIRECTION OF PHOTOGRAPH: > south

VEATHER CONDITIONS: > evercest,

> mild mid - 601

PHOTOGRAPHED BY: > Belmont

SAMPLE ID (if applicable): FIM <



DESCRIPTION: > Ch-site well 5-145 is broken off et

> it base.

DATE: >5 9/91

TIME: > .3:58

DIRECTION OF PHOTOGRAPH: > west

WEATHER CONDITIONS: > overcat, mild

> Mid - 1005.

PHOTOGRAPHED BY: > Belinente

SAMPLE ID (if applicable):



DESCRIPTION: > Abondonned gas station adjacent to the worten

> bender of the landfill on Collinsville Road

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: IMETRO: DSPL SYST INC.

PAGE 19 OF 22

U.S. EPA ID: ILD TEOLOGIZOY TDD: FOS-ENIZ-COD

PAN: FILOYINSB



DATE: >5/9/11 TIME: >10:55 DIRECTION OF PHOTOGRAPH: > East to PHOTOGRAPHED BY: > Belmoute

VEATHER CONDITIONS: > Over(2st, mild, mid-60) SAMPLE ID (if applicable): > HA.

DESCRIPTION: > Per spectrup view of southern border of the Site.

SITE NAME: Metro DSPL SYST, INC

PAGE 20 OF 22

U.S. EPA ID: 1-0980607204

TDD: F-05-8912-090

PAN: FILOYITSB



| DATE: >5/9/91 | TIME: >10:58 | DIRECTION OF PHOTOGRAPH | N/NW P | HOTOGRAPHED BY: > Belmon | ũ . |
|--------------------|---------------|-------------------------|----------|----------------------------|-------|
| WEATHER CONDITIONS | > Overcost | wild, mid-60, | | SAMPLE ID (if applicable): | > N/A |
| DESCRIPTION: > Pe | repecting vin | w of southern | border c | of the site. | |

SITE NAME: METRO DSPL SYST INC.

PAGE Z OP 22

U.S. EPA ID: 1LD 980607204

TDD: FOS- 8912-090

PANI FILOYITSB



DATE: > 5/9/91 TIME: > 14:00 DIRECTION OF PHOTOGRAPH: > South PHOTOGRAPHED BY: > Belmente

VEATHER CONDITIONS: > Oveness, Mild, mid-605 SAMPLE ID (If applicable): > N/A

DESCRIPTION: > Prospertive vivo of landfill and wetlands taken from Huy 203

cm the sites north boundary.

SITE NAME: METRO : DSPL SYST INC.

PAGE LLOP LL

U.S. EPA ID: 140980607204

TOD: FOS- 8912-090

PAN: FILOYITSB



DATE: >5/9/91 TIME: >13:55 DIRECTION OF PHOTOGRAPH: West PHOTOGRAPHED BY: > Be monte

VEATHER CONDITIONS: > C verest, mild, mid-60s SAMPLE ID (if applicable): > M/A.

DESCRIPTION: > Perspectup vive of abendoned gas Station and motel. Photo talen

north of Collingville 12d.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

ROUTINE ANALYTICAL SERVICES CONTRACT REQUIRED DETECTION AND QUANTITATION LIHITS

Contract Laboratory Program Target Compound List Quantitation Limits

| COHPOUND | CAS # | VATER | SOIL SEDIHENT SLUDGE |
|----------------------------|------------|-------------|----------------------------|
| Chloromethane | 74-87-3 | 10 ug/L | 10 ug/Kg |
| Bromomethane | 74-83-9 | 10 | 10 |
| Vinyl chloride | 75-01-4 | 10 | 10 |
| Chloroethane | 75-00-3 | 10 | 10 |
| Methylene chloride | 75-09-2 | 5 | 5 |
| Acetone | 67-64-1 | 10 | 5 |
| Carbon disulfide | 75-15-0 | 5 | 5 |
| 1,1-dichloroethene | 75-35-4 | 5 | 5 |
| 1,1-dichloroethane | . 75-34-3 | | 5 |
| 1,2-dichloroethene (total) | | 5 5 | 5 |
| Chloroform | 67-66-3 | 5 | 5 |
| 1,2-dichloroethane | 107-06-2 | 5 | 5 |
| 2-butanone (HEK) | 78-93-3 | 10 | 10 |
| 1,1,1-trichloroethane | 71-55-6 | 5 | 5 |
| Carbon tetrachloride | 56-23-5 | 5 | 5 |
| Vinyl acetate | 108-05-4 | 10 | 10 |
| Bromodichloromethane | 75-27-4 | 5 | 5 |
| 1,2-dichloropropane | 78-87-5 | 5 | |
| cis-1,3-dichloropropene | 10061-01-5 | | 5 |
| Trichloroethene | 79-01-6 | 5 5 5 | 5 |
| Dibromochloromethane | 124-48-1 | 5 | 5 |
| 1,1,2-trichloroethane | 79-00-5 | 5 · 5 | 5 |
| Benzen e | 71-43-2 | · 5 | 5 |
| Trans-1,3-dichloropropene | 10061-02-6 | 5 | 5 5 5 5 5 5 |
| Bromoform | 75-25-2 | 5 | 5 |
| 4-Hethyl-2-pentanone | 108-10-1 | 10 | 10 |
| 2-Hexanone | 591-78-6 | 10 | 10 |
| Tetrachloroethene | 127-18-4 | 5 | 5 |
| Tolene | 108-88-3 | 5 | |
| 1,1,2,2-tetrachloroethane | 79-34-5 | 5 | 5 5 5 5 |
| Chlorobenzene | 108-90-7 | 5 5 5 | 5 |
| Ethyl benzene | 100-41-4 | | 5 |
| Styrene | 100-42-5 | 5 | 5 |
| Xylenes (total) | 1330-20-7 | 5 | 5 |

Table A Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

| | | | SOIL SEDIHENT |
|-------------------------------|-----------------|---------|------------------|
| COHPOUND | CAS # | VATER | SLUDGE |
| Di | 100 05 2 | 10/! | 220 /٧ |
| Phenol | 108-95-2 | 10 ug/L | 330 ug/Kg |
| bis(2-Chloroethyl) ether | 111-44-4 | 10 | 330 |
| 2-Chlorophenol | 95-57-8 | 10 | 330 |
| 1,3-Dichlorobenzene | 541-73-1 | 10 | 330 |
| 1,4-Dichlorobenzene | 106-46-7 | 10 | 330 |
| Benzyl Alcohol | 100-51-6 | 10 | 330 |
| 1,2-Dichlorobenzene | 95-50-1 | 10 | 330 |
| 2-Hethylphenol | 95-48-7 | 10 | 330 |
| bis(2-Chloroisopropyl) ether | 108-60-1 | 10 | 330 |
| 4-Methylphenol | 106-44-5 | 10 | 330 |
| N-Nitroso-di-n-dipropylamine | 621-64-7 | 10 | 330 |
| Hexachloroethane | 67-72-1 | 10 | 330 |
| Nitrobenzen e | 98-95 -3 | 10 | 330 |
| Isophorone | 78-59-1 | 10 | 330 |
| 2-Nitrophenol | 88-75-5 | 10 | 330 |
| 2,4-Dimethylphenol | 105-67-9 | 10 | 330 |
| Benzoic Acid | 65-85-0 | 50 | 1600 |
| bis(2-Chloroethoxy) methane | 111-91-1 | 10 | 330 |
| 2,4-Dichlorophenol | 120-83-2 | 10 | 330 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 10 | 330 |
| Naphthalene | 91-20-3 | 10 | 330 |
| 4-Chloroaniline | 106-47-8 | 10 | 330 |
| Bexachlorobutadiene | 87-68-3 | 10 | 300 |
| 4-Chloro-3-methylphenol | 59-50-7 | 10 | 330 |
| 2-Methylnaphthalene | 91-57-6 | 10 | 330 |
| Hexachlorocyclopentadiene | 77-47-4 | 10 | 330 |
| 2,4,6-Trichlorophenol | 88-06-2 | 10 | 330 |
| 2,4,5-Trichlorophenol | 95-95-4 | 50 | 1600 |
| 2-Chloronaphthalene | 91-58-7 | 10 | 330 |
| 2-Nitroaniline | 88-74-4 | 50 | 1600 |
| Dimethylphthalate | 131-11-3 | 10 | 330 |
| Acenaphthylene | 208-96-8 | 10 | 330 |
| 2,6-Dinitrotoluene | 606-20-2 | 10 | 330 |
| 3-Nitroaniline | 99-09-2 | 50 | 1600 |
| Acenaphthene | 83-32-9 | 10 | 330 |
| 2,4-Dinitrophenol | 51-28-5 | 50 | 1600 |
| · | 100-02-7 | - 50 | 1600 |
| 4-Nitrophenol Dibenzofuran | 132-64-9 | 10 | |
| | 121-14-2 | 10 | 330 |
| 2,4-Dinitrotoluene | | | 330 |
| Diethylphthalate | 84-66-2 | 10 | 330 |
| 4-Chlorophenyl-phenyl ether | 7005-72-3 | 10 | 330 |

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

| | | | SOIL SLUDGE |
|----------------------------|----------|---------|----------------|
| COHPOUND | CAS # | VATER | SEDIMENT |
| Fluorene | 86-73-7 | 10 ug/L | 330 ug/Kg |
| 4-Nitroaniline | 100-01-6 | 50 | 1600 |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | 50 | 1600 |
| N-nitrosodiphenylamine | 86-30-6 | 10 | 330 |
| 4-Bromophenyl-phenylether | 101-55-3 | 10 | 330 |
| Hexachlorobenzene | 118-74-1 | 10 | 330 |
| Pentachlorophenol | 87-86-5 | 50 | 1600 |
| Phenanthrene | 85-01-8 | 10 | 330 |
| Anthracene | 120-12-7 | 10 | 330 |
| Di-n-butylphthalate | 84-74-2 | 10 | 330 |
| Fluoranthene | 206-44-0 | 10 | 330 |
| Pyrene | 129-00-0 | 10 | 330 |
| Butylbenzylphthalate | 85-68-7 | 10 | 330 |
| 3,3'-Dichlorobenzidine | 91-94-1 | 20 | 660 |
| Benzo(a)anthracene | 56-55-3 | 10 | 330 |
| Chrysene | 218-01-9 | 10 | 330 |
| bis(2-Ethylhexyl)phthalate | 117-81-7 | 10 | 330 |
| Di-n-octylphthalate | 117-84-0 | 10 | 330 |
| Benzo(b)fluoranthene | 205-99-2 | 10 | 330 |
| Benzo(k)fluoranthene | 207-08-9 | 10 | 330 |
| Benzo(a)pyrene | 50-32-8 | 10 | 330 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 10 | 330 |
| Dibenz(a,h)anthracene | 53-70-3 | 10 | 330 |
| Benzo(g,h,i)perylene | 191-24-2 | 10 | 330 |

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

| | | | SOIL SEDIHENT |
|------------------------|---------------------|-----------|------------------|
| COHPOUND | CAS # | VATER | SLUDGE |
| alpha-BHC | 319-84-6 | 0.05 ug/L | 8 ug/Kg |
| beta-BHC | 319-85-7 | 0.05 | 8 |
| delta-BHC | 319-86-8 | 0.05 | 8 |
| gamma-BHC (Lindane) | 58-89-9 | 0.05 | 8 |
| Heptachlor | 76-44-8 | 0.05 | 8 |
| Aldrin | , 309-00-2 | 0.05 | 8 |
| Reptachlor epoxide | 1024-57-3 | 0.05 | 8 |
| Endosulfan I | 959-98-8 | 0.05 | 8 |
| Dieldrin | 60-57-1 | 0.10 | 16 |
| 4,4'-DDE | 72-55-9 | 0.10 | 16 |
| Endrin . | 72-20-8 | 0.10 | 16 |
| Endosulfan II | 3321 3 -65-9 | 0.10 | 16 |
| 4,4'-DOD | 72-54-8 | 0.10 | 16 |
| Endosulfan sulfate | 1031-07-8 | 0.10 | 16 |
| 4,4'-DDT | 50-29-3 | 0.10 | 16 |
| Methoxychlor (Mariate) | 72-43-5 | 0.5 | 80 |
| Endrin ketone | 53494-70-5 | 0.10 | 16 |
| alpha-Chlordane | 5103-71-9 | 0.5 | 80 |
| gamma-chlordane | 5103-74-2 | 0.5 | 80 |
| Toxaphene | 8001-35-2 | 1.0 | 160 |
| AROCLOR-1016 | 12674-11-2 | 0.5 | 80 |
| AROCLOR-1221 | 11104-28-2 | 0.5 | 80 |
| AROCLOR-1232 | 11141-16-5 | 0.5 | 80 |
| AROCLOR-1242 | 53469-21-9 | 0.5 | 80 |
| AROCLOR-1248 | 12672-29-6 | 0.5 | 80 |
| AROCLOR-1254 | 11097-69-1 | 1.0 | 160 |
| AROCLOR-1260 | 11096-82-5 | 1.0 | 160 |

Table A
(Cont.)

CONTRACT LABORATORY PROGRAM
TARGET ANALYTE LIST
INORGANIC DETECTION LIMITS

| Compound | Procedure | Water (µg/L) | Soil Sediment Sludge (mg/kg) |
|-----------|------------|-----------------|------------------------------------|
| aluminum | ICP | 200 | 40 |
| antimony | furnace | 60 | 2.4 |
| arsenic | furnace | 10 | 2 |
| barium | ICP | 200 | 40 |
| beryllium | ICP | 5 | 1 |
| cadmium | ICP | 5 | 1 |
| calcium | ICP | 5,000 | 1,000 |
| chromium | ICP | 10 | 2 |
| cobalt | ICP | 50 | 10 |
| copper | ICP | 25 | 5 |
| iron | ICP | 100 | 20 |
| lead | furnace | 3 | 1 |
| magnesium | ICP | 5,000 | 1,000 |
| nanganese | ICP | 15 | 3 |
| mercury | cold vapor | 0.2 | 0.008 |
| nickel | ICP | 40 | 8 |
| potassium | ICP | 5,000 | 1,000 |
| selenium | furnace | 5 | 1 |
| silver | ICP | 10 | 2 |
| sodium | ICP | 5,000 | 1,000 |
| thallium | furnace | 10 | 2 |
| tin | ICP | 40 | 8 |
| vanadium | ICP | 50 | 10 |
| zinc | ICP | 20 | 4 |
| cyanide | color | 10 | 2 |

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

FILE ... ALL FL. INCH. ... IFO M.... IC FLEST LINDS OR LITE ITE DEPARTMENT-OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 525 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

Tan Raw

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

| 1. | Type of Well | | | |
|-----|-----------------|------------------|------------------|------------|
| | a. Dug 1 | Bored Hol | • Diamin | . Depthft. |
| | Curb materia | 21 Bu | ried Slab: Yes_ | No |
| | b. Driven | Drive Pipe | Diemin. | Depthft. |
| | c. Drilled X | Finished I | n Drift_X | In Rock |
| | | Gravel Pac | | |
| , | d. Grout: | (XIND) | PROM (PL.) | TO (F1.) |
| | | Ready mix | | 30 |
| | | VERRA WITY | M | N |
| | | | | |
| | | | | <u> </u> |
| 2. | Distance to Ne | orest: | • | |
| | Building | | Seepage Tile Fie | 1d |
| | Cess Pool | | | lron) |
| | Privy | | | |
| | Septic Tank | | - | |
| | Leaching Pit_ | | | |
| 3. | | | | 8 No_X |
| 4. | Date well comp | leted | Nov. 198 | 3 |
| 5. | Permanent Pum | p Installed? Yes | Dotel1/2 | 3/83 No |
| | Manufacturer | Lavne Tyr | Trbn Local | lon |
| | Capacity 150 | Ogpm. Depth of | Setting | 60FL |
| 6. | Wesi Top Sealer | 1? Yes X No. | ТуреС | ement |
| 7. | Pitless Adapter | Installed? Ye | sNo_X | |
| | Manufacturer_ | | Model Numb | er |
| | How attached to | casing? | | · |
| 8. | Well Disinfecte | d? Yes_X | _No | • |
| 9. | Pump and Equip | ment Disinfected | 4? Yes_X | No |
| 10. | | Sizegal. | Тур• | |
| | Location | | | |
| 11. | Water Sample St | bmitted? Yes. | No | <u> </u> |
| RE | MARKS: | | | |
| | | | | |
| | | | /*) • | / |
| | | | | 1 |

| GEOLOGICAL | AND | WATER | SURVEYS | WELL | RECORD |
|------------|-----|-------|---------|------|--------|
|------------|-----|-------|---------|------|--------|

| 10. Property | owner Pfizer In | C. Well No. | 15_ | <u> </u> |
|---------------|-----------------|------------------|-------|----------|
| Address | East St. Louis | Illinois | | |
| | John Ruester | | 2-002 | 045 |
| 11. Permit No | . 109867 | Date10/7 | /83 | |
| | Alluvial | _ 13. County_St_ | | |
| at depth. | 80 to 115 ft. | Sec. 8.7/2 | | - |
| 14. Screen: | Diem18_in. | Twp. 2N | | |
| Length: _ | 35 ft. Slot_#6 | Rgo. <u>_9W</u> | | |
| 15. Casing a | nd Liper Pipe | Elev | 7 | |

| Diem. (in.) | Kind and Weight | From (FL) | To (Pt.) | LOCATION IN |
|-------------|------------------|-----------|----------|--------------|
| 18 | stainless | +2 | 80 | SECTION PLAT |
| 48 | Carbon stl 0.375 | 0 | 1 30 | 400'N-1250E |
| • | | | | Amoteria |

- 16. Size Hole below cosing: 54 in.
- 17. Static level 30 ft. below easing top which is 2 ft. above ground level. Pumping level 43. 6ft. when pumping at 1500 gpm for 4 hours.

| 18. FORMATIONS PASSED THROUGH | THICKNESS | POTTON |
|---------------------------------|-----------|--------|
| Cinders | 1 | 1 |
| Rubble fill | 5 | 6 |
| Gray clay & brown clay | 6 | 12 |
| Fine brown sand | 14 | 26 |
| Gray fine to medium sand | 49 | 75 |
| Gray med. to coarse sand & grvl | 15 | 90 |
| Gray coarse sand & boulders | 25.5 | 115.5 |
| Shale | 1 | 116.5 |
| | | ** |

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

| SIGNED | · / | <u> </u> | | DATE_ | 2/6/84 |
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| TOWN | TOWNSHIP | | Map | No. 4 | |
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| ELEVATION 0-17 | sung my house | 27 | | | - |
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| into St. Clais | | Index No. | 04 | 12 | - · · |
| DRILL RECORD | | | | •••••• • • ••••• | * • • |
| 7-51(-11-11) | Illinois Geological Surv | ry, Urbana. | • • • | -3- | • |
| 1 | | • • • | • • | • | |

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FRANK G. TOJO

7600 Caseyville Road.

well Number.... No.1

Owned by Frank G. Tojo

7600 Caseyville Road, East St. "ouis

Date drilled..... September 17, 1964

prilled by Luhr Bros. Inc. Columbia, Illinois

Depth of hole..... 116.7 ft below ground surface.

Diameter of hole... 32 inches

Depth of well..... 116 ft below ground surface.

Casing....... 83 feet of 16-inch steel pipe. Top of casing extends 3 feet above ground surface.

36 feet of Doerr, 16-inch screen with bottom set at 116 feet below ground surface. Gravel-packed with Merramec gravel.

Location of well... 150 feet North of Old Caseyville Road and 150 feet south of Harding Ditch, approximately 1450 feet East and 225 feet South of the North-west corner of Section 14 T.2 N. R.9 W.

Log of well..... As classified by the driller:

0 to 15 feet. Clay

15 to 20 feet. Fine sand, gray.
20 to 25 feet. Coarse sand with 1/4" gravel.

25 to 30 feet. Clay, silty, with Very coarse sand.

30 to 35 feet. Sand with some clay.

35 to 116.5 feet. Coarse sand with gray clay lenz.

Permanent pump has been installed. It is a Worthington 19 Pump... turbine, powered by an Allis Chalmers, butane, engine. The pump setting is as follows: 40 feet of 8-inch column pipe. 4 feet of 3stage, 12-inch bowl assembly. 10 feet of 8-inch tail pipe.

54 feet total length of pump setting.

static level..... 16.77 feet (when drilled as reported by the driller)

pumping level.... 28.87 feet (when drilled as reported by the driller) This level was after pumping at 1270 gpm but the length of time pump Ms not known.

Mr. Tojo raises fish for bait and uses the well to well used for.... supply water to two ponds, one is of 1 acre surface and the other is 2 1/2 acre surface. A water sample was collected January 22, 1966 for mineral, analysis. The sample expressed to State Water Survey Laboratory, Champaign, Illingis. Cle Dones

White Copy -111. Dept. 0114. Health Yellow Copy - W Jentractor Blue Copy - Will James FILL IN ALL PERTINENT INFORMATION REQUEST AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM \$16, \$7. & OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706, DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. GE DURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

| | ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT | 10. Froperty : | GICAL AND WATER OWNER Thomas | nogle | . Wall No. | |
|---------|---|---|--|--|------------|---------|
| 1. | Type of Well a. Eug | Orller | 700 Dunkam D15 Diviling D16727 12 13 G3 II. Dinn. 4 In. | Licent Duty 13. Cour Sec. Twp Rge | o ilo. | Ceace |
| | | 15. Casing or | Rind and Weight | Yeam (N.) | To (Vi.) | вно |
| | | 64 | //. | 0 | 63 | SECTION |
| 2. | Distance to Nearest: Building Ft. Seepage Tile Field Cest Pool Sewer (non Cast iron) Privy Sewer (Cast iron) Septic Tank Barnyard Leaching Pit Manure Pile | 16. Size Hole | telow casing: 1 | _in. | | |
| 3. | Is writer from this well to be used for human consumption? | | 10 hours. | | - | |
| | Para well completed | 18. FOR | MATIONS PASSED THROU | GH | YHICK | HENS DE |
| 4. 5 | Parament Pump Installed? Yes No 1 | | Orafunden | · · | | 12 1 |
| | Copecitygpm. Depth of settingft. | ومروع والمحاولة | lorse san | P | .5 | 1 6 |
| | Well Top Seuled? You No | | ود هندي و دود و دود و دود معاملته معامل الله الله الله الله الله الله الله ا | | | |
| | Old on Admir Installad? Yes No | | | | | |
| 8. | Pitless Adaptor Installed? YesNoNo | عجيجت فنائج مراسوب | | | | |
| | Well Disinfected? Yes No | | | | | |
| ¥. | | | ** de 9 deus de 1 marços de 1800 de 18 de 1800 | | | |
| | Well Disinfected? Yes No | | An all a super de la comme destination a la calendaria per la calendaria per la calendaria per la calendaria p | | | |
| | Well Disinfected? Yes No | | | | | |
| | Well Disinfected? Yes No | | | | 1 | |
| | Well Disinfected? Yes No | (CCN'(INUE) | on heparate sheet i | NUCYSHAD | 17 | |

LOCATION IN SECTION PLATS

DEPTILOP

1. Type of Well

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUE D AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

| | a. Dug 8 | lored | Hole Dlam | in. Depth[t. |
|----|------------------|---------------|---------------------------------------|--------------|
| | | | Burled Slab: Yes | |
| | h Driven | Delva | Pine Diam II | n Denth ff |
| | c. Drilled _ v | Finish | ed in Drift | . In Rock |
| | Tubulæ | Gravel | Packed | . In Rock |
| | d. Grout: | | | 7 |
| | | (KIND) | PROM (FI.) | 70 (FL) |
| | - 3 | Prill Codti | 195 0 | .15 |
| | | | <u>'</u> | |
| | | | | • |
| | • | · | · · · · · · · · · · · · · · · · · · · | |
| 2. | Distance to Nea | | | |
| | Building(2 | | | 'ield |
| | Cess Pool | | • | it Iron) |
| | Privy | <u> </u> | Sewer (Cast Iro | n) |
| | Septic Tank | <u> </u> | Bornyard | |
| | Leaching Pit | | Manure Pile | <u> </u> |
| 3. | Well furnishes v | vater for hum | on consumption? | YesNo |
| 4. | Date well compl | leted | <u>5-15-85</u> | |
| 5. | Permanent Pum | Installed? | YesDate | No |
| | Manufacturer | | TypeLoc | ation |
| | Capacity | gom. Depth | of Setting | Ft. |
| 6. | Well Top Segled | 12 Yes | No Tune 3 | tecl CAp Fi. |
| 7. | Pitless Adopter | Installed? | YesNo. | |
| | | | Model Nu | |
| | How attached to | casina? | model ind | |
| 8. | Well Disinfected | 17 Yes V | No | |
| 9. | Pump and Equip | ment Dialate | eted? Yes | No. I |
| Ō, | Pressure Tank | Size | al. Type | |
| - | Location | | | |
| 1. | | | YesNo | V |
| | MARKS: | | | |
| | | | <i>.</i> | ` لا بد |
| | | | (1000) | 7 256 117 |
| | | | | , - 🕶 |

| 10. | Propert | y owner Bluff | View | FARM | 7 | Wall No | | 1 |
|-----|------------------------|---|------------|---------------------|----------------|--------------------|--------------|--|
| | Addres | 8410 Force | 1/ 13/ | Id. Ch | <u>۔</u> 5، | syville | ·I | 1. 632.33 |
| • | Driller | Daniel K. Me | Cocel | Lice | ns | e No. 🕰 | 72- | 006766 |
| 11. | Permit | No//6 77/ | | Date . | | <u>3- /2</u> | <u>-655</u> | |
| 12. | | rom SAND 1 Gr | nrel | 13. Co | U. | 11y <u>- 54</u> | 44 | <u> </u> |
| | Screen: Length | b 55 to 1/8 ft. Diam. 12 in. 10 ft. Slot and Liner Pipe | 3/32 | | 10 | 14.4 2 N 9 W | | 7 |
| | (in.) | Kind and Weigh | | From (Ft. | `` | To (F1.) | , ' _ | ###################################### |
| ۳ | 12" | | | 770 (71 | 4 | 10 (71.) | | CATION IN TION PLAT |
| - | <i>[_el</i> | | <u>e /</u> | | - | | | E NUE- |
| - | | 32.71 1bs/ | / T | | - | | 54 | NE |
| . L | Si-a H | ole below casing: | | ! | _ | | \in | igative |
| 17. | | level 13_11. belo | | | ric | b is | | |
| | above | | | | _ | | | |
| | | ground level. Pump | ind tex | ا حري اه | ſŧ. | when p | nublux | א ארדססר, |
| | | r hours. | ind lead | ا <u>حاک</u> ا | ſŧ. | when p | umpine | 3 et -\too |
| 18. | gpm (o | | _ | | (t. | | KHE88 | DESTRUCTO |
| 18. | gpm (o | ORMATIONS PASSED | _ | | [(. | | | |
| 18. | op 5 | PORMATIONS PASSED | _ | | n. | | | |
| 18. | Spm 10 Spm 5 | DOMATIONS PASSED | _ | | (1. | | | |
| 18. | Top 5 Brown Fine | COMMATIONS PASSED | THROUG | | (t. | | | |
| 18. | Top 5 Brown Fine | DOMATIONS PASSED | THROUG | | (t. | | | |
| 18. | Top 5 Brown Fine | COMMATIONS PASSED | THROUG | 2011 | | THIC | | 10' 10' 10' |
| 18. | Top 5 Brown Fine | COMMATIONS PASSED | THROUG | | | THIC | | |
| 18. | Top 5 Brown Fine | COMMATIONS PASSED | THROUG | 2011 | | THIC | | 10' 10' 10' |
| 18. | Top 5 Brown Fine | COMMATIONS PASSED | THROUG | 2011 | | THIC | | 10' 10' 10' |
| 18. | Top 5 Brown Fine | COMMATIONS PASSED | THROUG | 2011 | | THIC | | 10' 10' 10' |
| | Fine Can | E ON SEPARATE SIII | n. L' | IL De | RY | THIC | KHE88 | 10' 4.' 10' 40' 118' |
| | Fine Can | PORMATIONS PASSED OI OI SIND SC SIND | n. L' | IL De | RY | THIC | KHE88 | 10' 4.' 10' 40' 118' |

INSTRUCTIONS TO DE ER

White Copy —
Ill, Dep L of Public Health
Yellow Copy — Well Centractor
Illus Copy — Well Owner

1. Tipe of Well

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

| •• | a Dug I | Bored_X Ho | le Diam. <u>36</u> in | . Depth_70_ft. |
|------------|------------------|-----------------|-----------------------|----------------|
| | Curb materia | . Bv | itled Slab: Yes. | NoX_ |
| | | | | Depthft. |
| | | | | In Rock |
| | | Gravel Pa | cked <u>X</u> . | |
| | d., Grout: | (KIND) | PROM (FL.) | TO (Ft.) |
| | • | gravel | 70 | 10 |
| | | concrete | 10 | 0 |
| | | | | |
| 2 | Distance to Ne | man! | | |
| A 1 | Building ok | | Seepage Tile Fie | aa ok |
| | Cess Pool Ok | | Sewer (non Cast | |
| | Privy | ok | Sewer (Cast Iron | |
| | PrivySeptic Tank | ok | Barnvard : | _ok |
| | Leaching Pit_ | υk | Manure Pile | ok |
| 3. | Well furnishes | water for human | consumption? Y | es_X No |
| 4. | | | ov. 6. 1980 | |
| 5. | Permanent Pum | p Installed? Ye | Date | NoX_ |
| | Manufacturer | Ту | peLoca | tion |
| | Capacity | _gpm. Depth of | Setting | Ft. |
| | Well Top Sente | 17 Yes_X_No | Type _001 | norete cap |
| 7. | | | es No | |
| | Manufacturer | | Model Num | |
| • | Hall Districute | o casingr | No | |
| | | | ed? Yes | |
| | | | Туре | |
| | | | - / | · , , |
| 11. | Water Sample S | ubmitted? Yes | No | X |
| RE | MARKS: | | • | |
| | • | | | <i>:</i> |

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Farmers Energy Corp. Well No.

| | Addres | Box #176, Natio | nal City, | III. | | |
|----------|----------|--------------------------|-------------|--|----------------|--|
| | Driller | Clarence Kohnen | Licens | No. 10 |)2 – 30 | } |
| 11. | Permit | No. #96992 | Date | ot. 20 | 1, 19 | 980 |
| 12. | Water ! | rom sand & gravel | 13. Coun | ly_St | Cle | ir |
| | at dent | th 32 to 70 ft. | Sec | 6.60 | | |
| 14. | Screen | : Dienin. | | 2 N | | |
| | | 1:ft. Slot | Roe. | 9 W | ` ├─ | ┞╼┞╼╞ |
| | | | Elev | <u> </u> | ` | |
| | | g and Liner Pipe | | | | |
| 01 | m. (In.) | Rind and Veight | Prom (P1.) | To (PL) | Lo | SHOT CATION IN |
| | 36 | concrete pipe | 0+1 | 70_ | 88C1 | TION PLATS |
| Γ | | | | | ,,,,, | , , , , , |
| | | • | 1 | | | |
| 16. | Size H | ole below casing: | la. | ······································ | ı | |
| | | levelft. below car | | h to | | 4 1. |
| ••• | | ground level. Pumping le | | | | |
| | | or hours. | | warea pe | | |
| _ | | | | | | |
| 18. | 1 | FORMATIONS PASSED THROU | JOH | THICK | NESS | DEPTH OF |
| | | top soil brown | | 2 | | 2 |
| | | dark clay | | 4 | | 6 |
| | | dark olay - sa | nđ | 2 | 4 | 30 |
| | | dark gray sand | - fine | 5 | | 35 |
| | | gray sand & gr | | 3 | 1 | 66 |
| - | | gray olay - sa | nd & grave | 1 2 | | 68 |
| | | redish gray sa | nd & grave | 1 2 | | 70 |
| | | | | | | |
| ~ | | • | | - - - - - - - - - - | | |
| - | | | | | | |
| (0 | INTERIOR | JB ON SKPARATE SHEET I | F NEGEREARY | 7 | | |
| 610 | NED _ | Marcice B | freen by | mn / | (2)- | 3.80 |
| 210 | MED - | | 144 16 DI | نگسہ تا 17 | | |
| | | 11 | · / _ | | | |

11:111 4:045 1/74 - KNB-1 WELL LOG #

TRUCTIONS TO DRILLERS

White Copy —
III. Dept. of Public Health
Yellow Copy — Well Centractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFURMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH' PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

| 1. | Type of Well a. Dug Bored Hole Diam. 30 in. Depth 29 ft. Curb material Burled Slab: Yes No b. Driven Drive Pipe Diam in. Depth ft. c. Drilled Finished in Drift In Rock Tubular Gravel Packed d. Grout: |
|-----|---|
| | (KIND) PROM (FL) TO (FL) |
| | |
| | |
| | |
| | · |
| 2. | Distance to Negrest: |
| | BuildingFt. Seepage Tile Field |
| | Cess Pool Sewer (non Cast Iron) |
| | Privy Sewer (Cast iron) Septic Tank Barnyard |
| | Septic Tank Barnyard Leaching Pit Manure Pile |
| 3. | Well furnishes water for human consumption? YesNo |
| 4. | Date well completed |
| 5. | Permanent Pump Installed? YesDateNo |
| ٠. | Manufacturer Type Location |
| | Copacityopm. Depth of SettingFt. |
| 6. | Well Top Sealed? YesType |
| | Pitless Adapter Installed? Yes No |
| | ManufacturerModel Number |
| | How attached to casing? |
| 8. | Well Disinfected? YesNo |
| 9. | Pump and Equipment Disinfected? YesNo |
| 10. | Pressure Tank Sixegal. Type |
| | Location |
| | Water Sample Submitted? YesNo |
| RE | MARKS: |
| | |
| | |

GEOLOGICAL AND WATER SURVEYS WELL RECORD

| 1. Peri | mit i | No | 31.3 C./A | 7/ | Do: 13. | te _ | | | | -6 | 70 | <u>د</u> 7 |
|-----------------------|----------------------|----------|---------------------------------------|-------------------|---------------|------|------|-------|-----|-----------|------|---------------|
| et d 4. Sere | epti en: | Dlam. | Formation toft. in. ft. Slot | | | Sec. | · | 7 | | | Ī | |
| 5. Cas | ing | and Lir | er Pipe | | | Elev | /. — | | · t | 17. | | |
| Diem. (ir | _ | | nd and Weigi | | From (| | To. | (PL) | î, | OCA: | MOIT | 1 |
| <u> 30</u> | 4 | Col | ociceto | | 30 | | ļ | | 35 | CTIO | x P | |
| | - 1 | | | | | | _ | | I∧ | 169.7 | NE | L |
| | | | | | | | | | ^ | Eri in | NE | |
| | 士 | | | | | | | | ^ | E | NE | |
| | | | w casing: | | _in. | | | | | | NE | |
| 7. Stat | ic l | evel | ft. belo | w casi | in. | whic | | | | | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo | ic le ve g for | round le | ft. belo | w casi ing lev | in. ng top | whic | . wh | | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |
| 7. Stat abo gpm | ic le ve g for | round le | ft. belo evel. Pump hours. | w casi ing lev | in. ng top | whic | . wh | en pu | mpi | ng c | | |

IDPH 4.065 1/74 - KNB-1

| | 113670 |
|--|--|
| City National City | County 5t. Clair My 504 1 |
| Section 6. 1d Twp. No. | 2N Range 9W |
| Location (in feet from section corner) | 550 N, 350 Wof SE COF. VOl. |
| Owner Stepheng Truck Stop | Authority |
| Contractor Hard Warzon Well | 11 Dulling E. St. Lauis, Illinois |
| Date drilled | Elev. above sea level top of well 405 + TH |
| Depth 85 | |
| Log Sand | 146 must |
| | |
| Were drill cuttings saved | Where filed |
| Size hole If reduced, where | and how much |
| Casing record | • |
| Distance to water when not pumping | Distance to water is |
| feet after pumping at | G. P. M. forhours. |
| Reference point for shove messurements | Could not measure water live |
| Type of pump | |
| Length of cylinder | Length of suction pipe below cylinder |
| Length stroke | Speed |
| Hours used per day | Type of power |
| Rating of motor | Rating of pump in G. P. M. |
| | vater level |
| (2) Pumping level No | (3) Discharge |
| (4) Influence on other wells | No . |
| Temperature of water Sample From P | Was water sample collected <u>Yes</u> |
| Date Dec 14, 1967 | Was water sample collected <u>Jes</u> Effect of water on meters, hot =ater |
| coils, etc. | |
| Date of Analysis | Analysis No |
| | Recorder W. H. Beber |
| • | 2 11.00 |